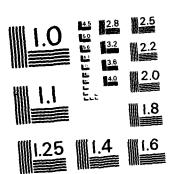
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### MEAN UPPER TROPOSPHERIC FLOW OVER THE GLOBAL TROPICS

BY

James C. Sadler, University of Hawaii

and

Thomas C. Wann, Major, USAF Headquarters AWS

JANUARY 1984

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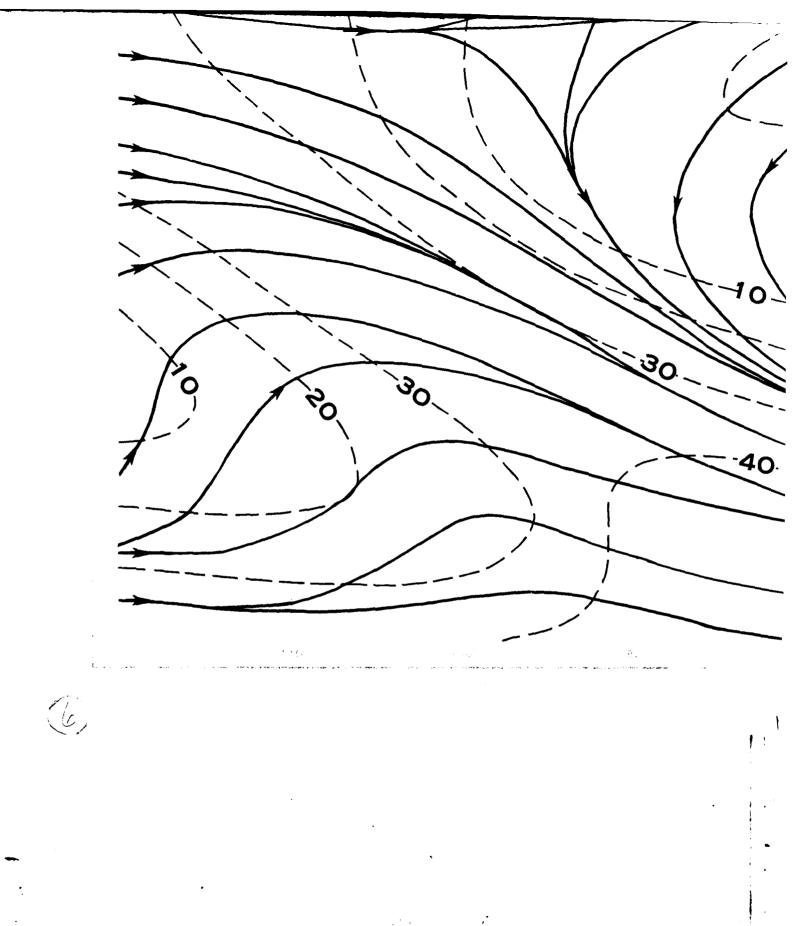
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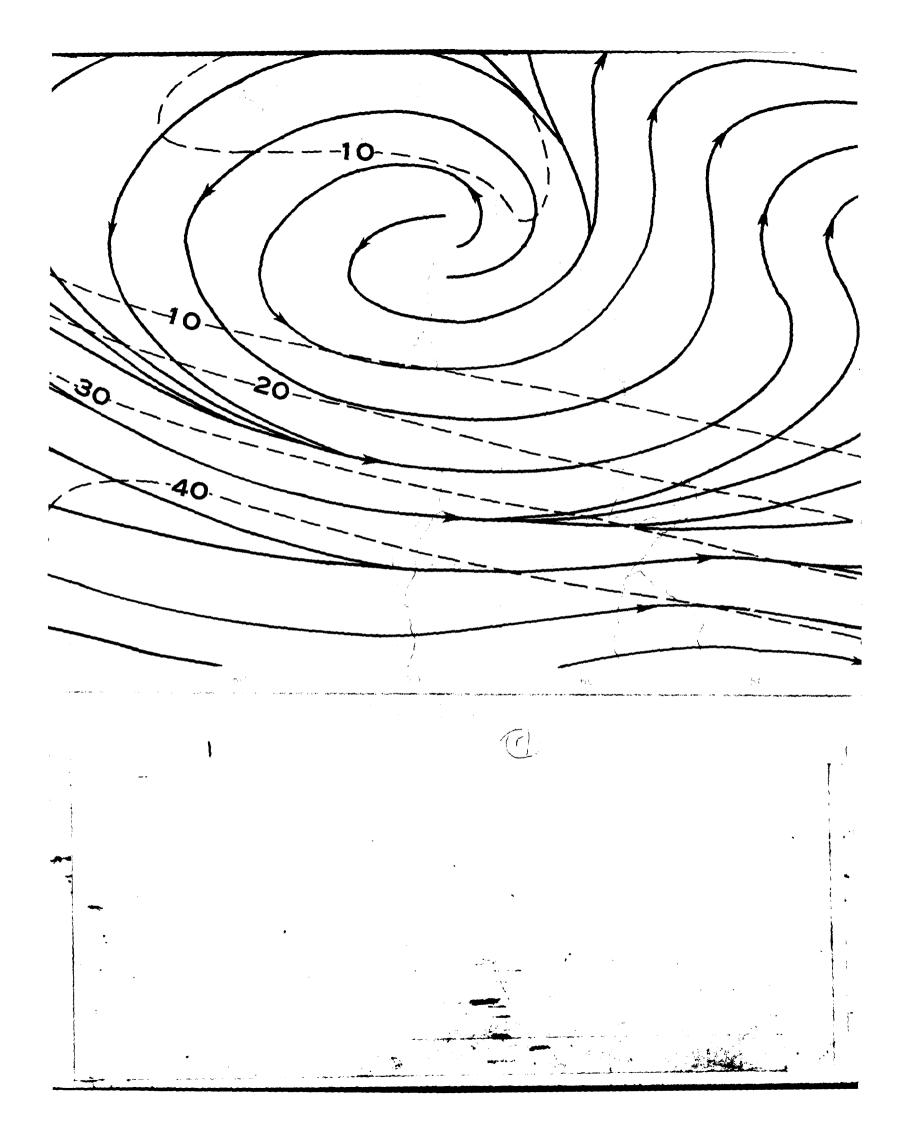
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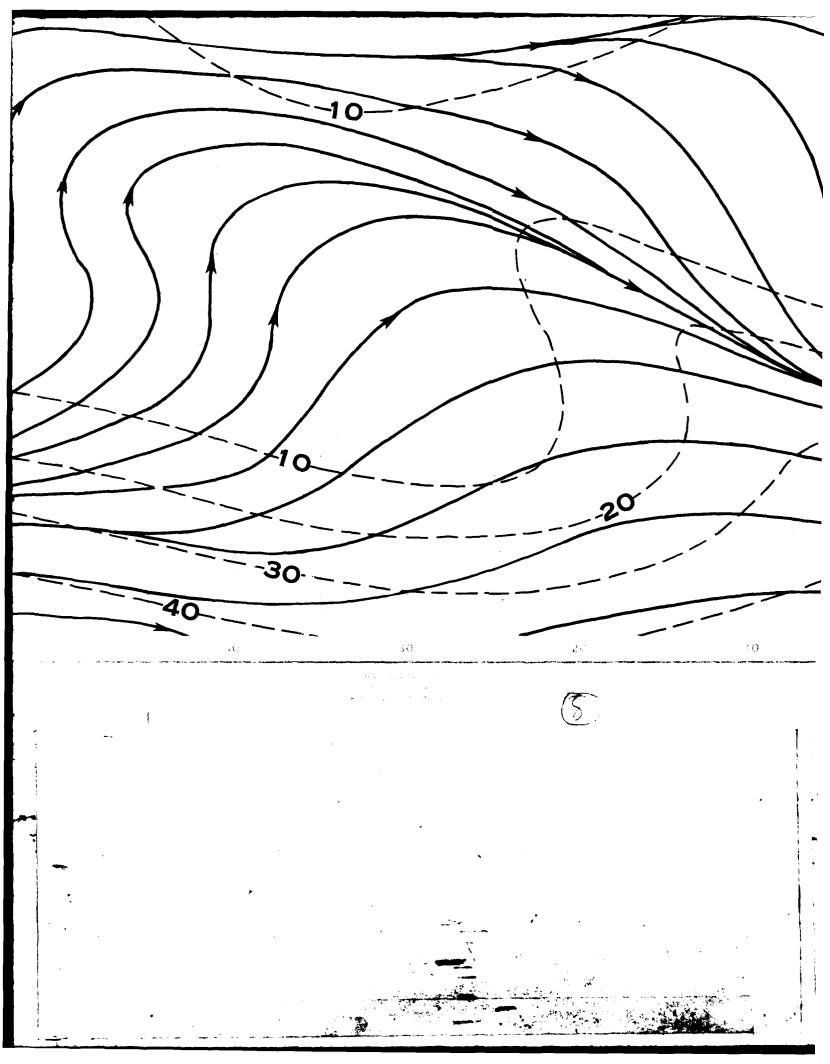
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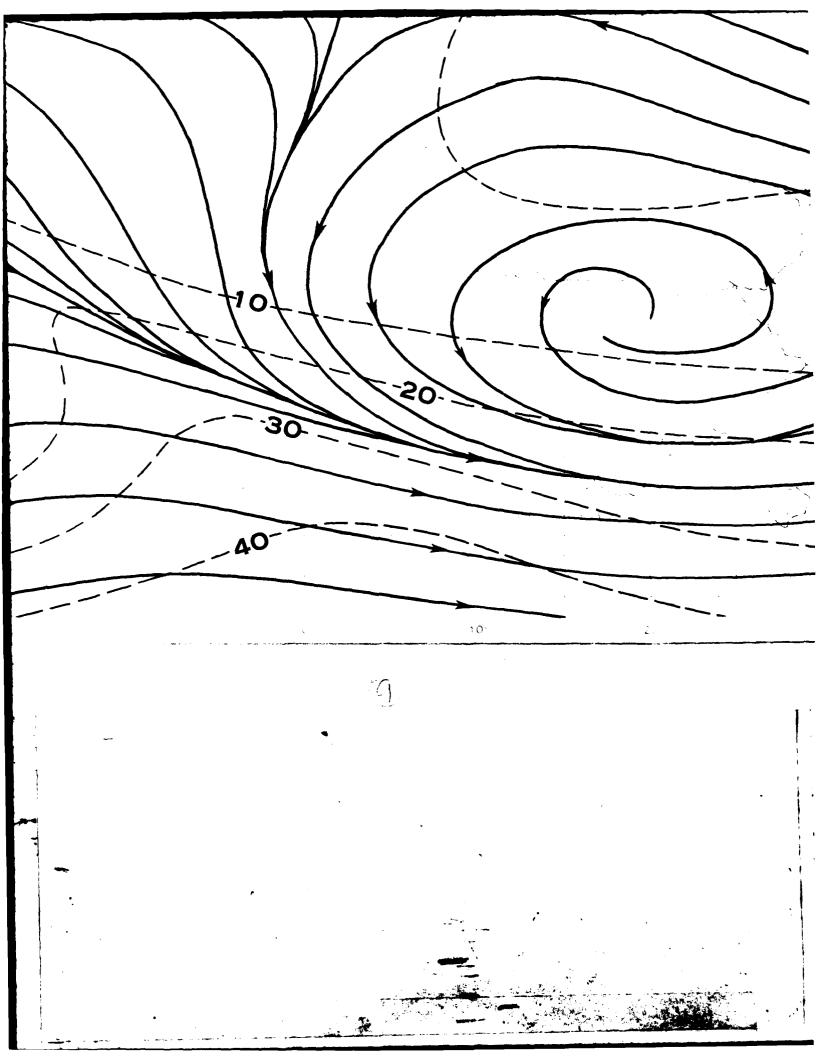


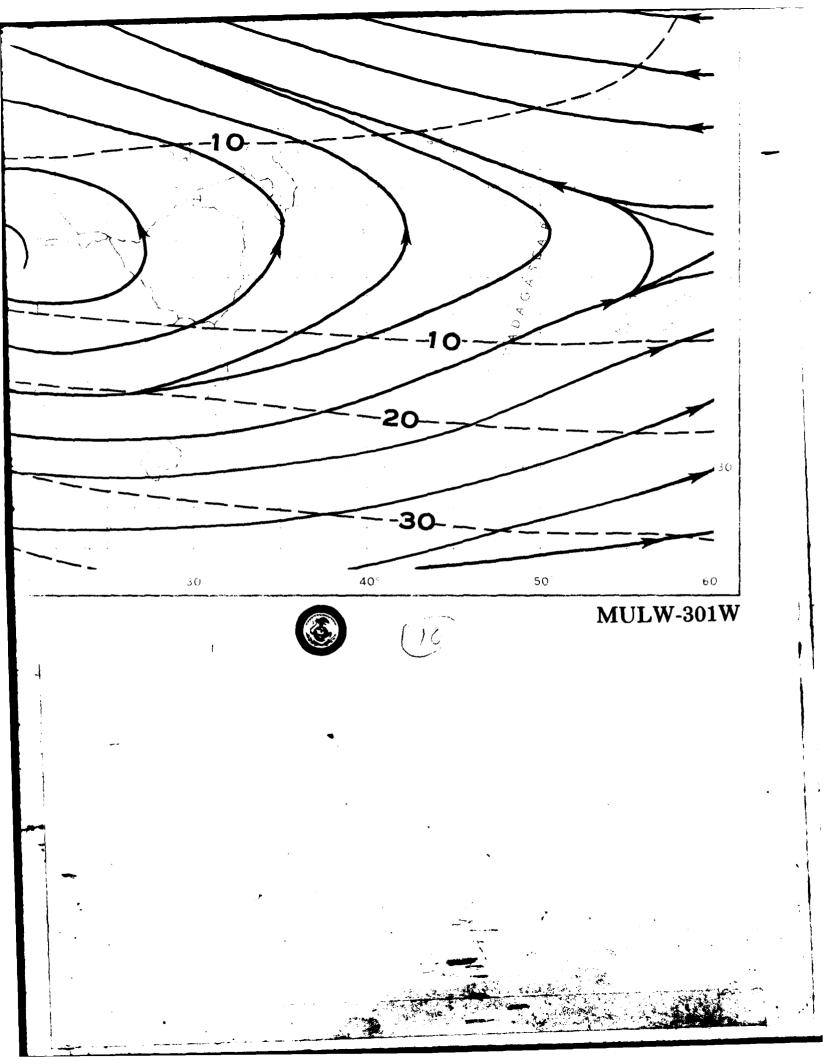
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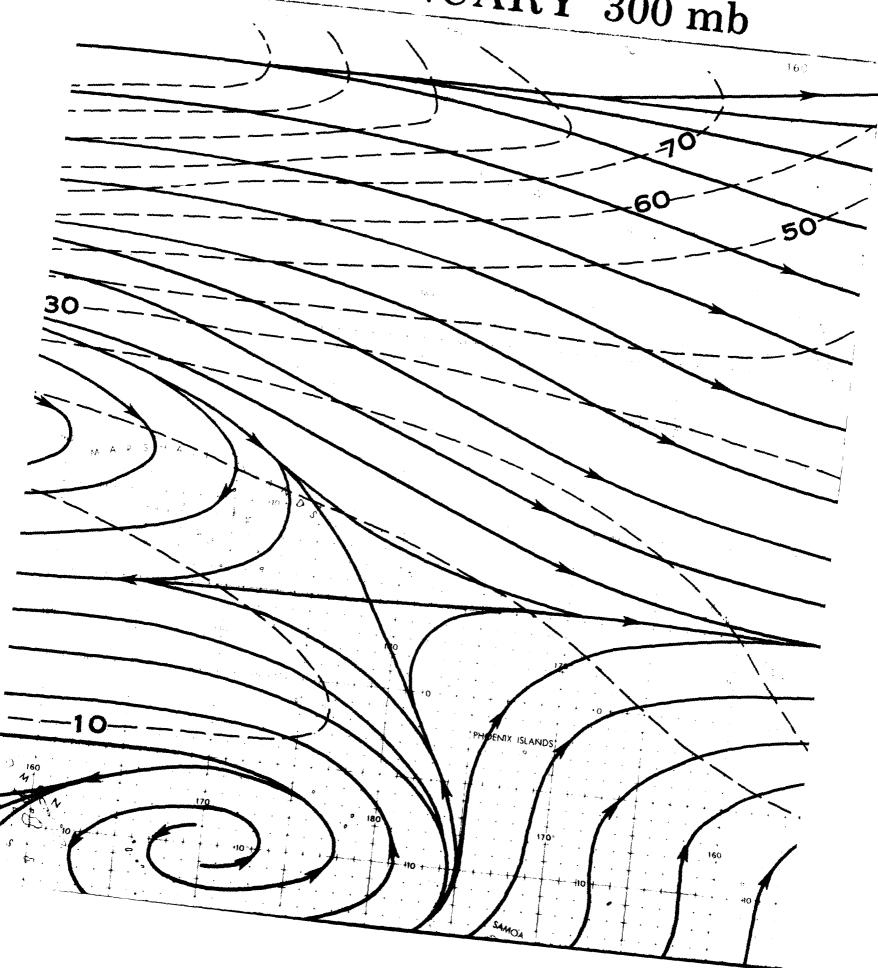


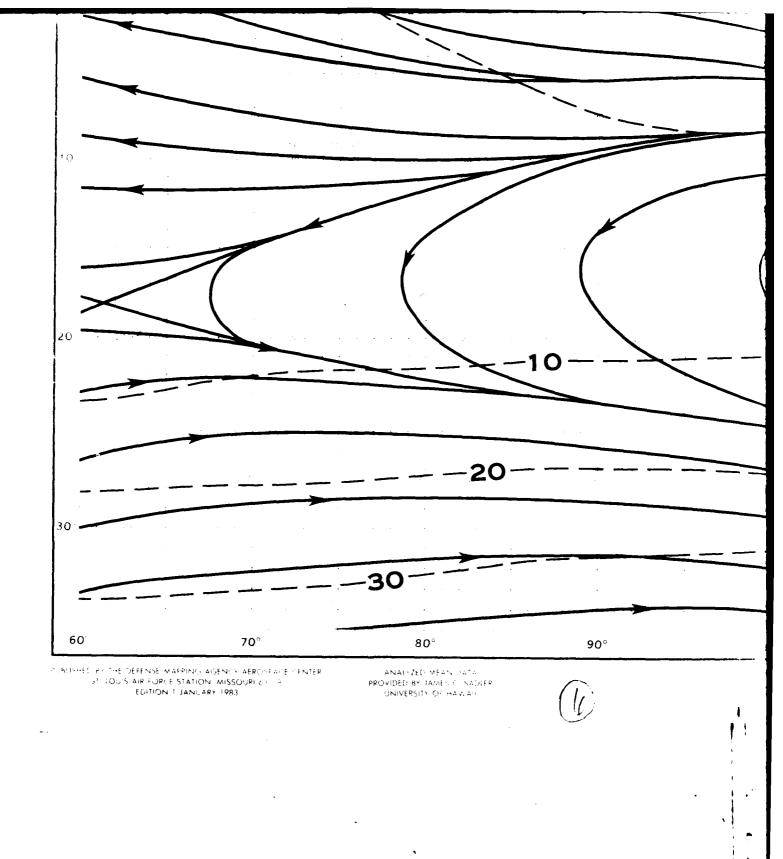


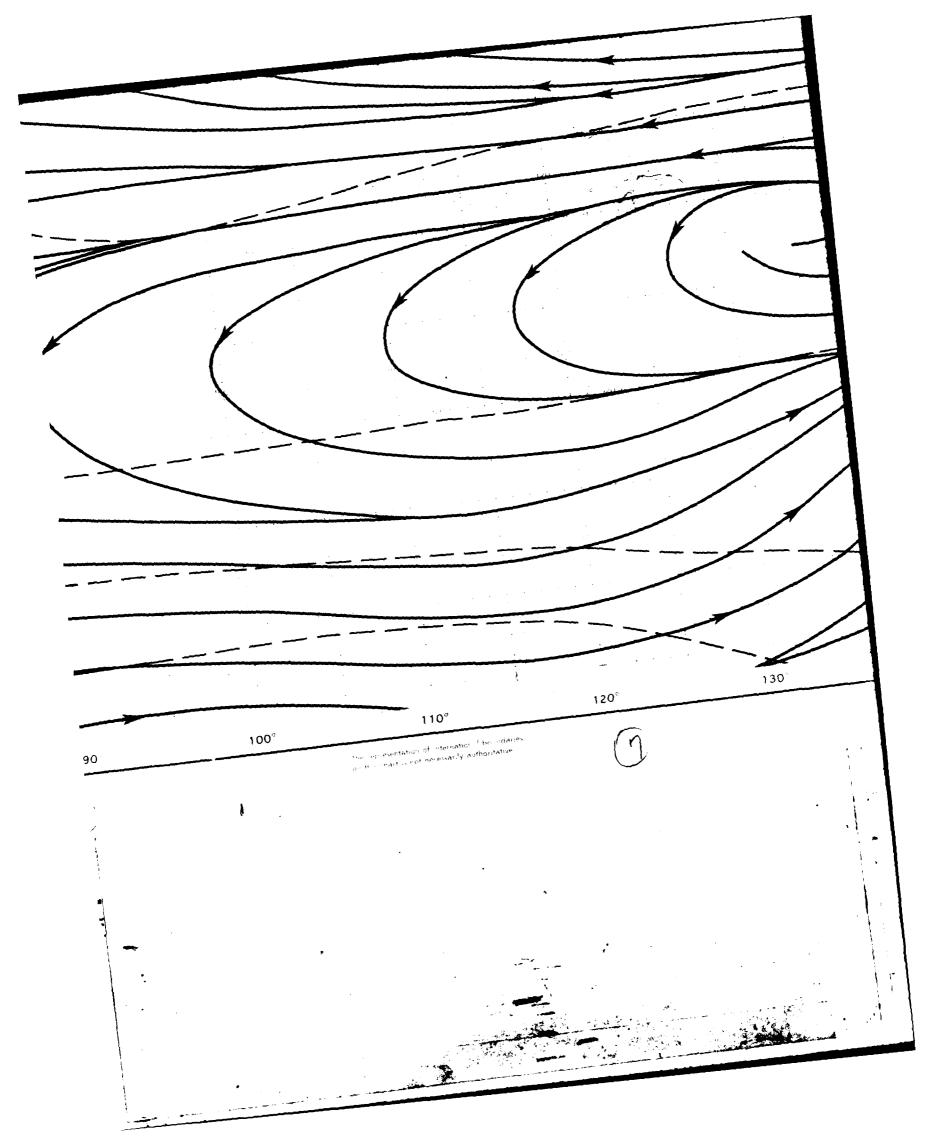
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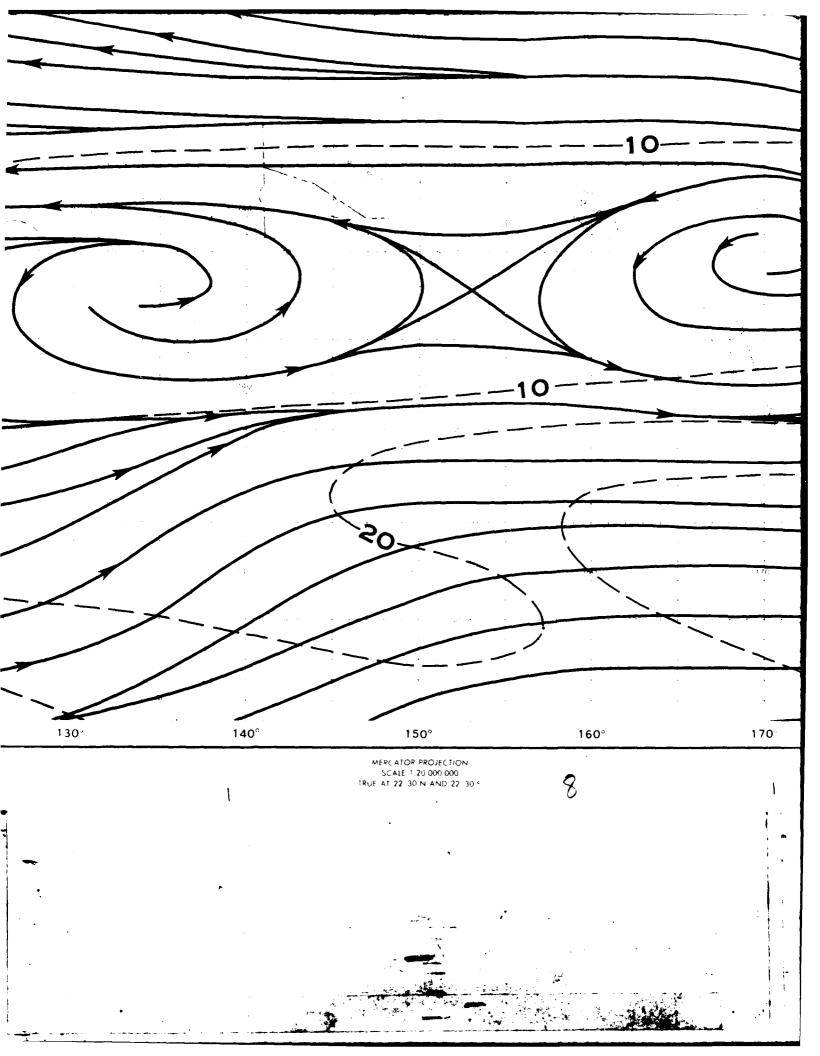
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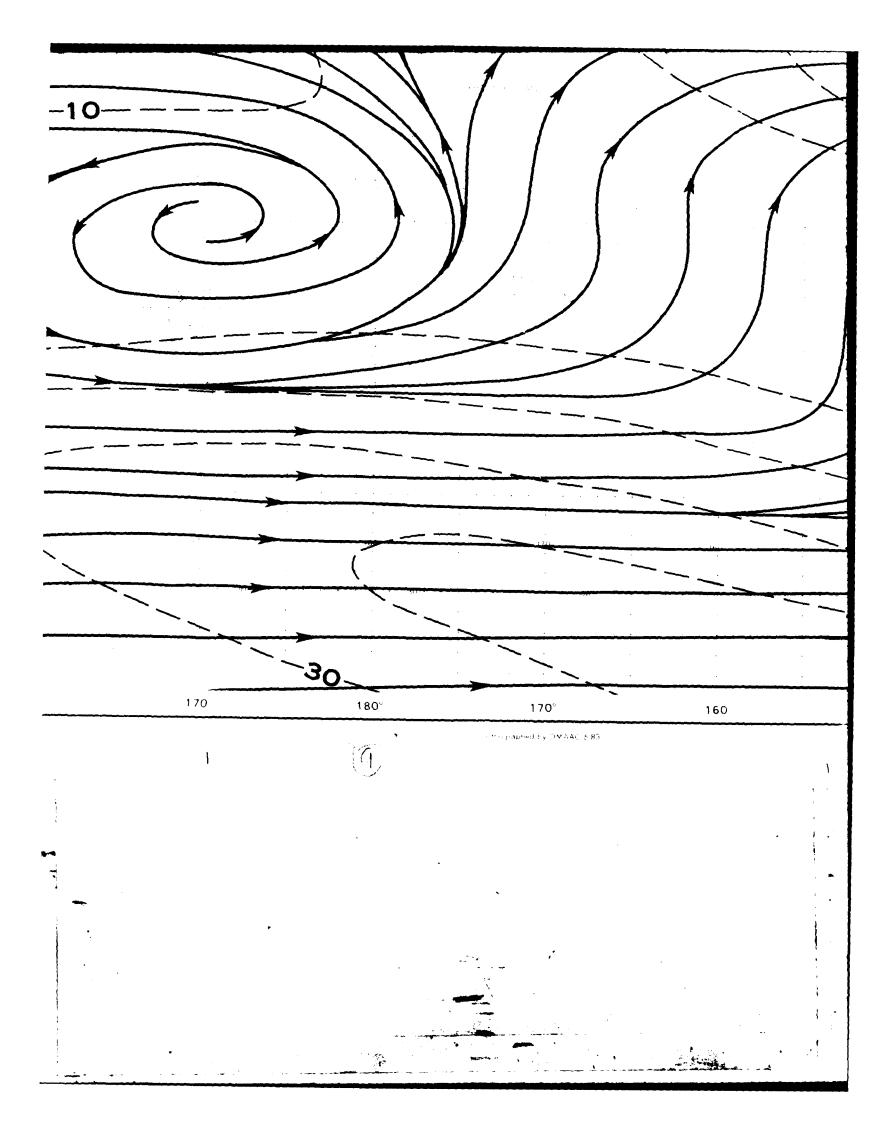
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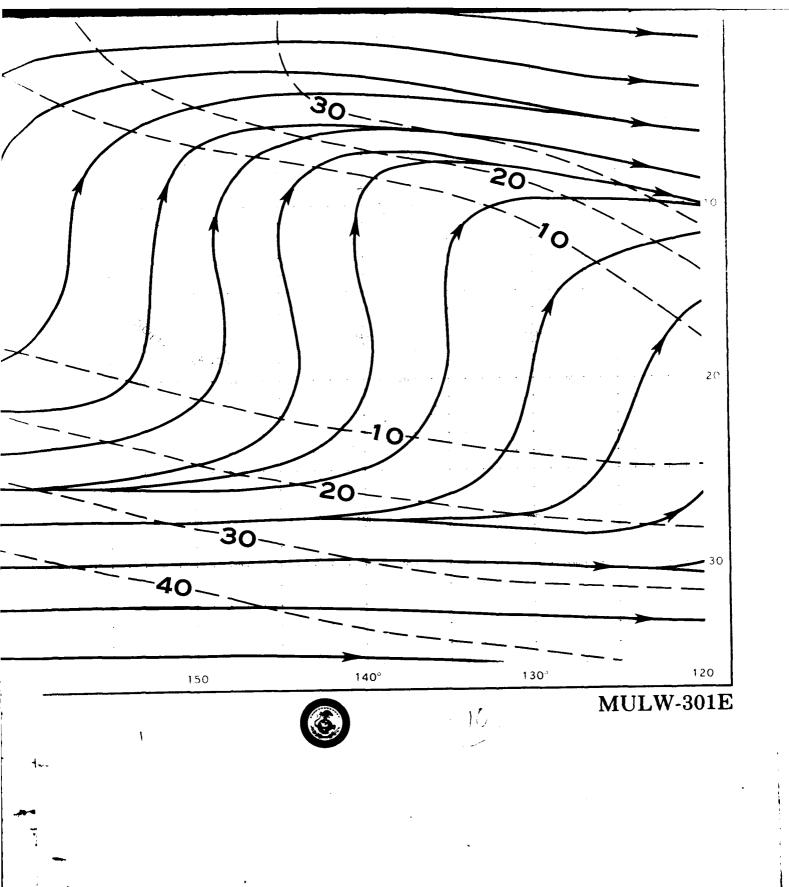


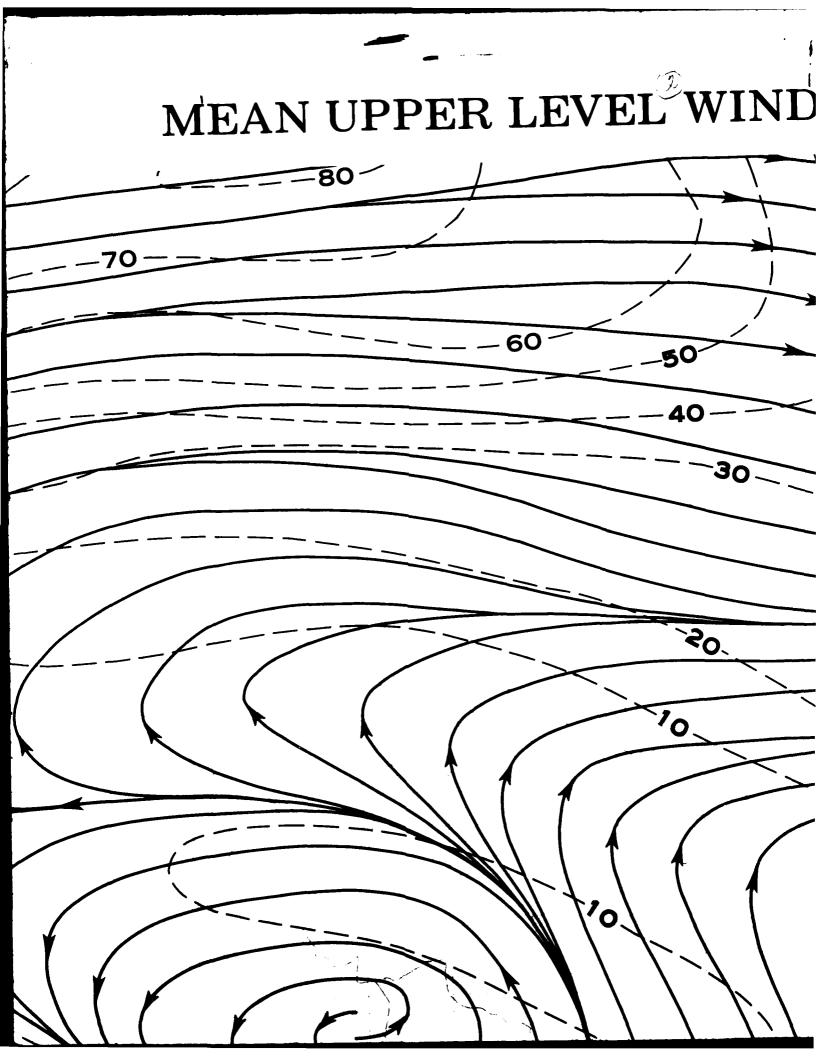


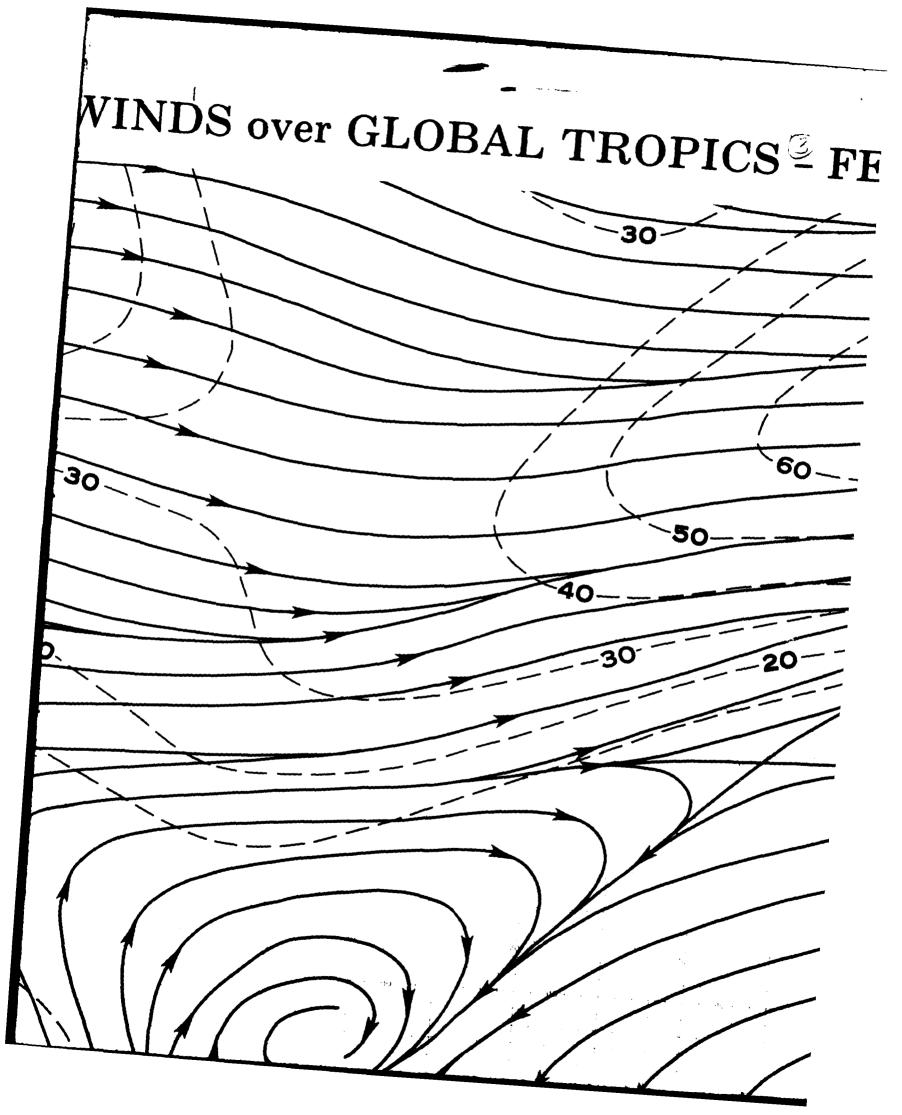




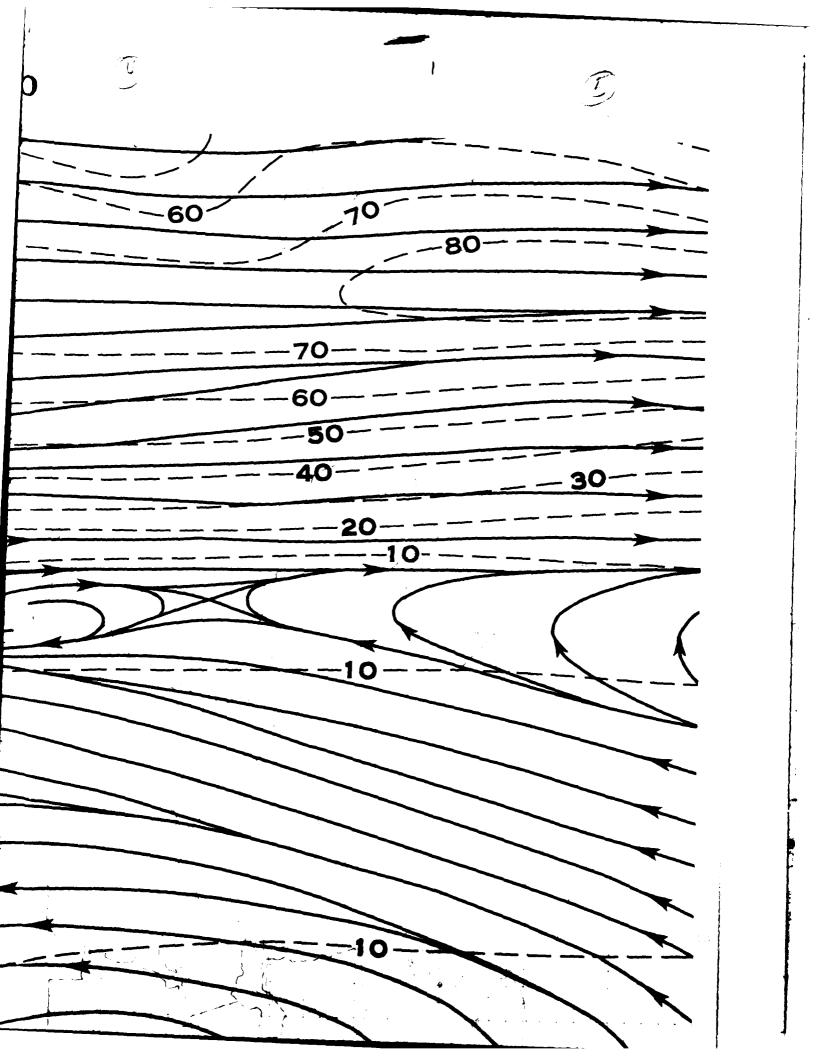


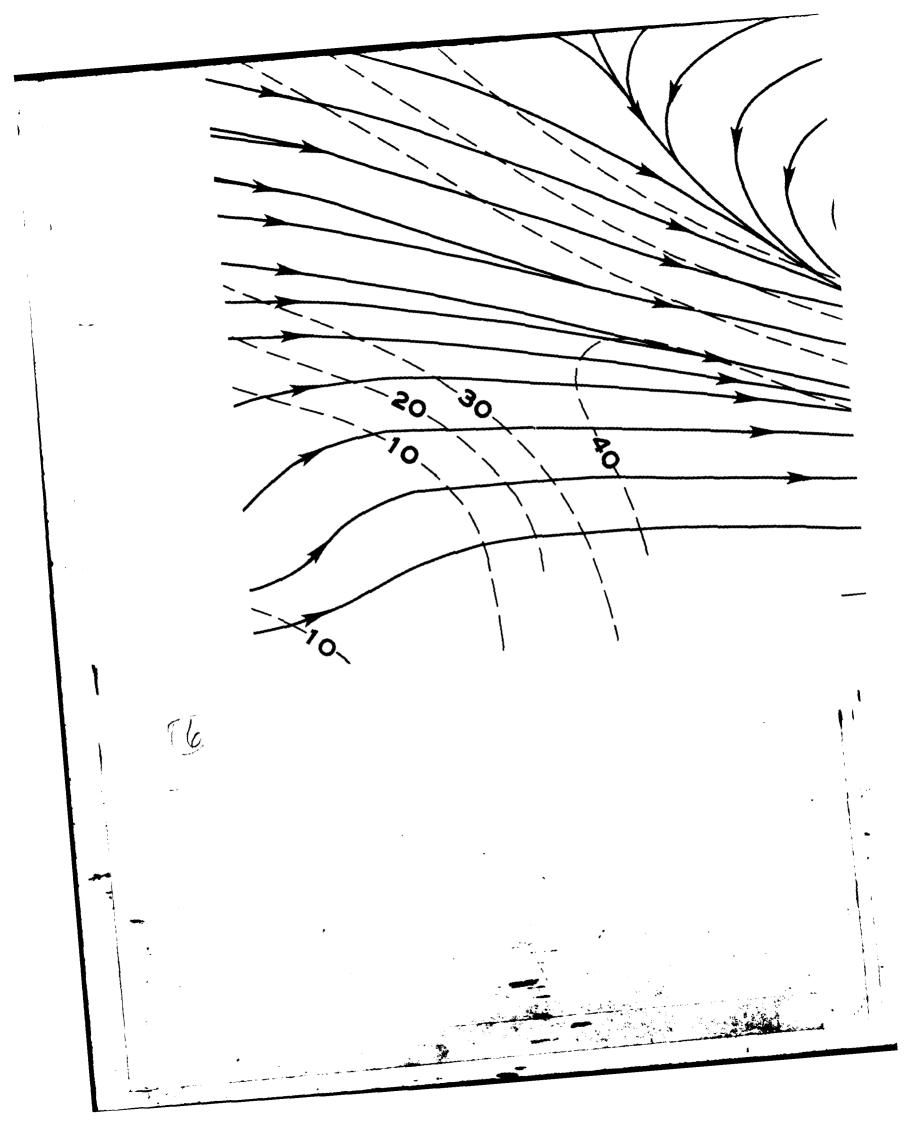


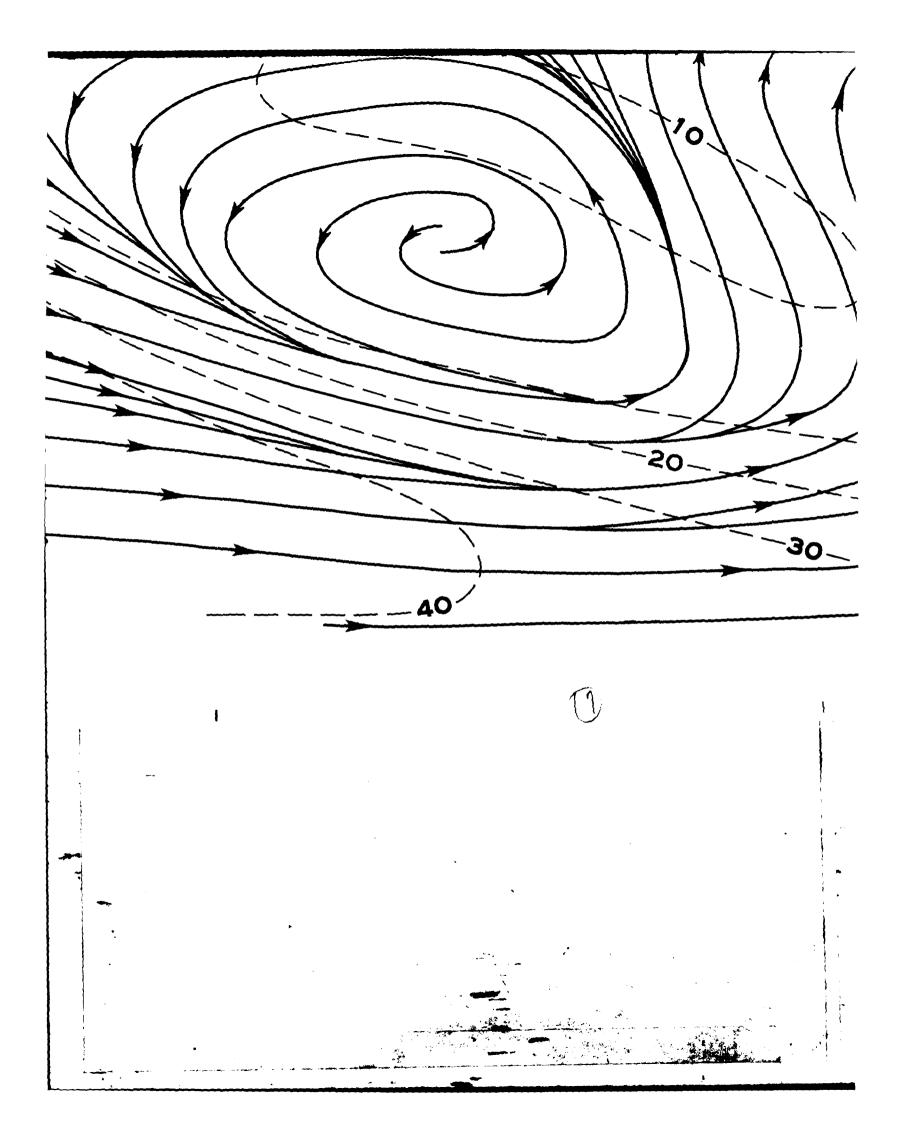


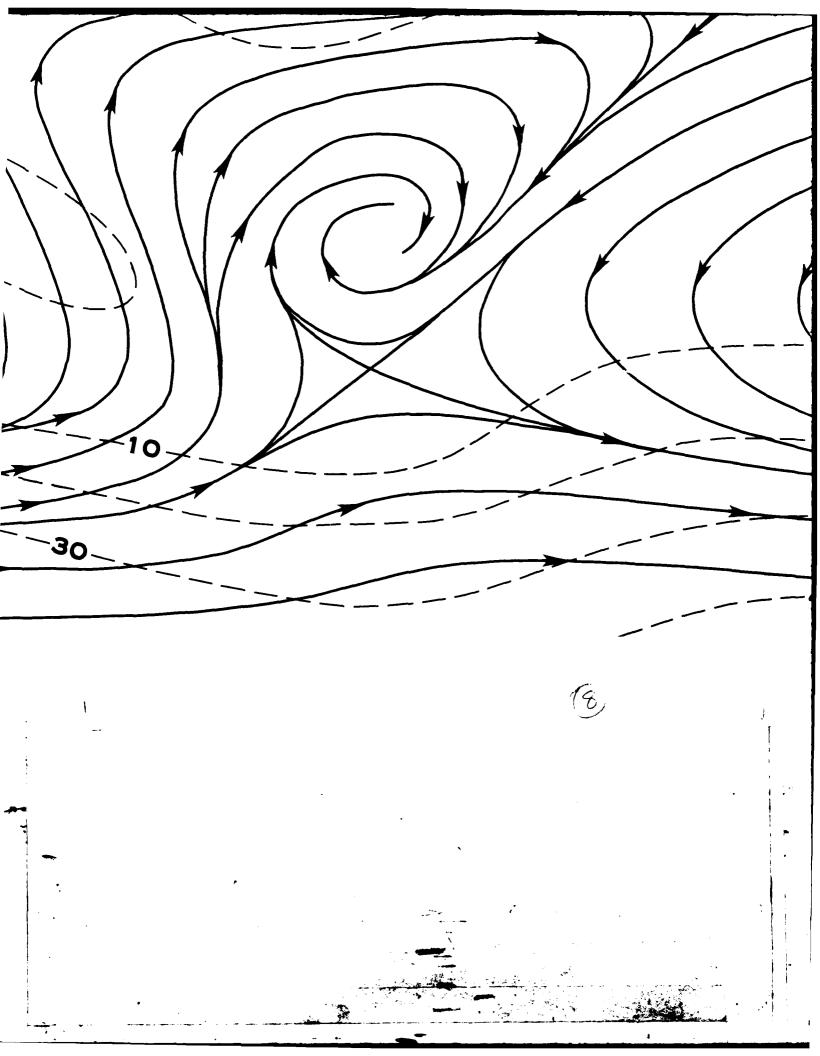


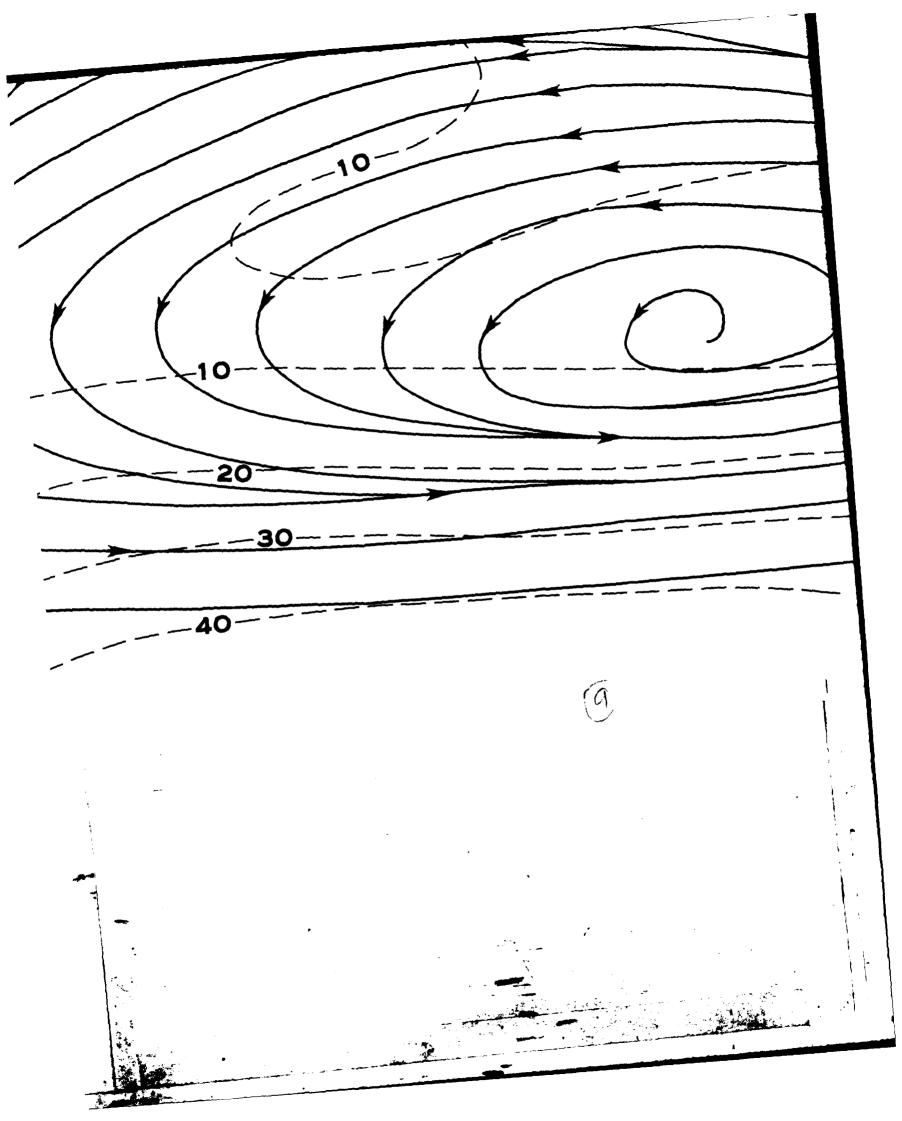
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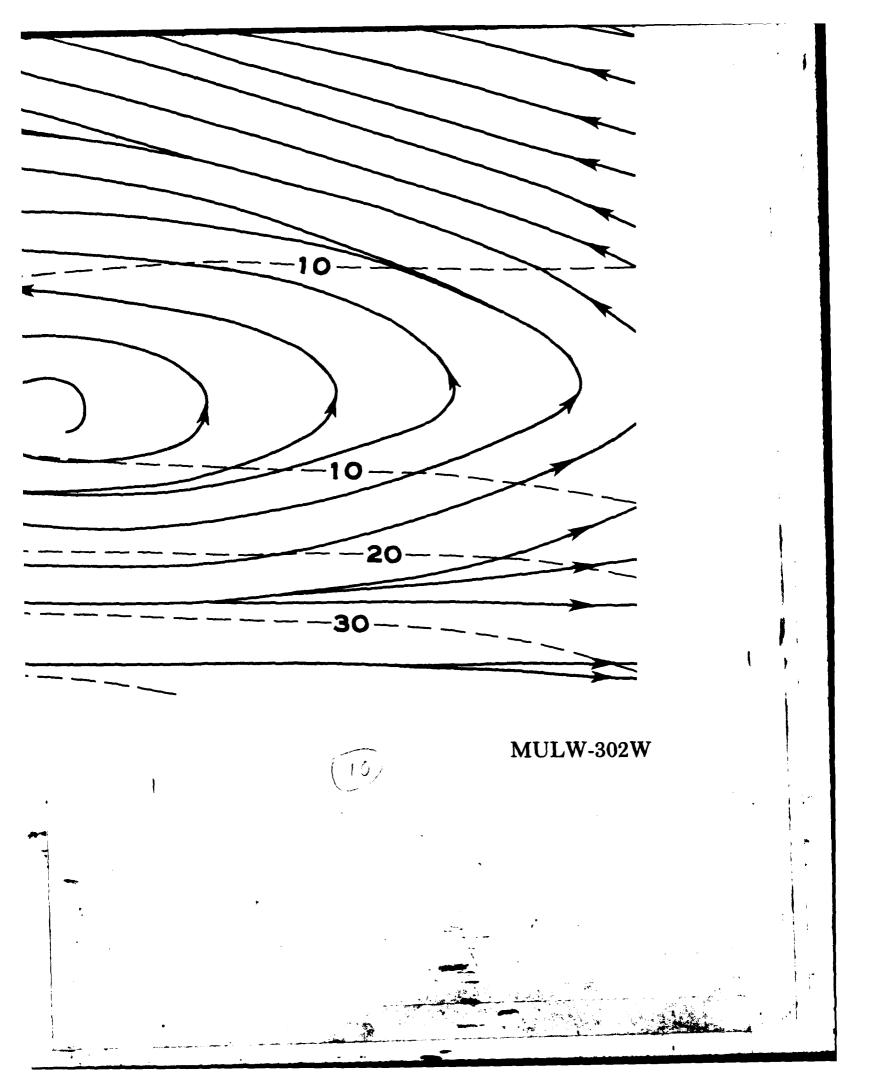






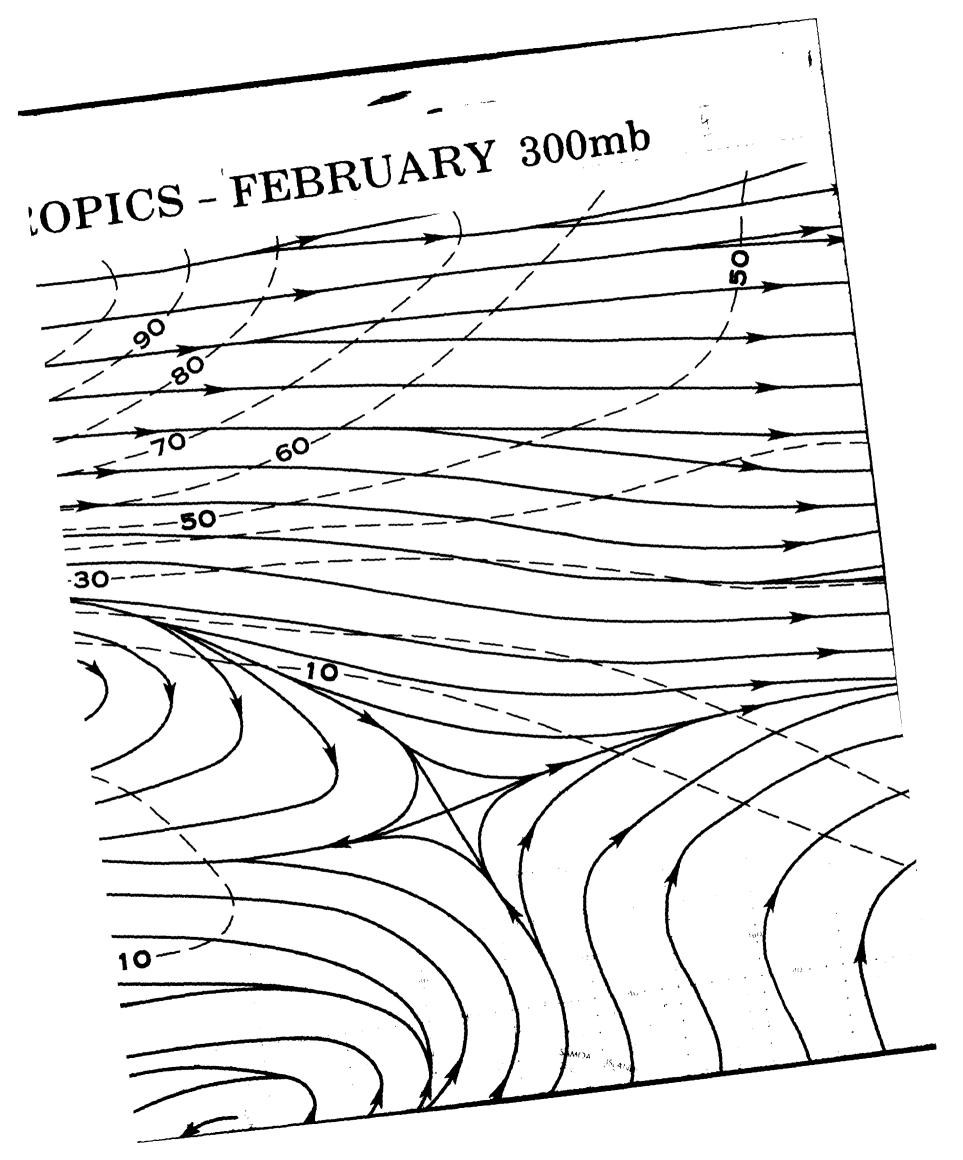


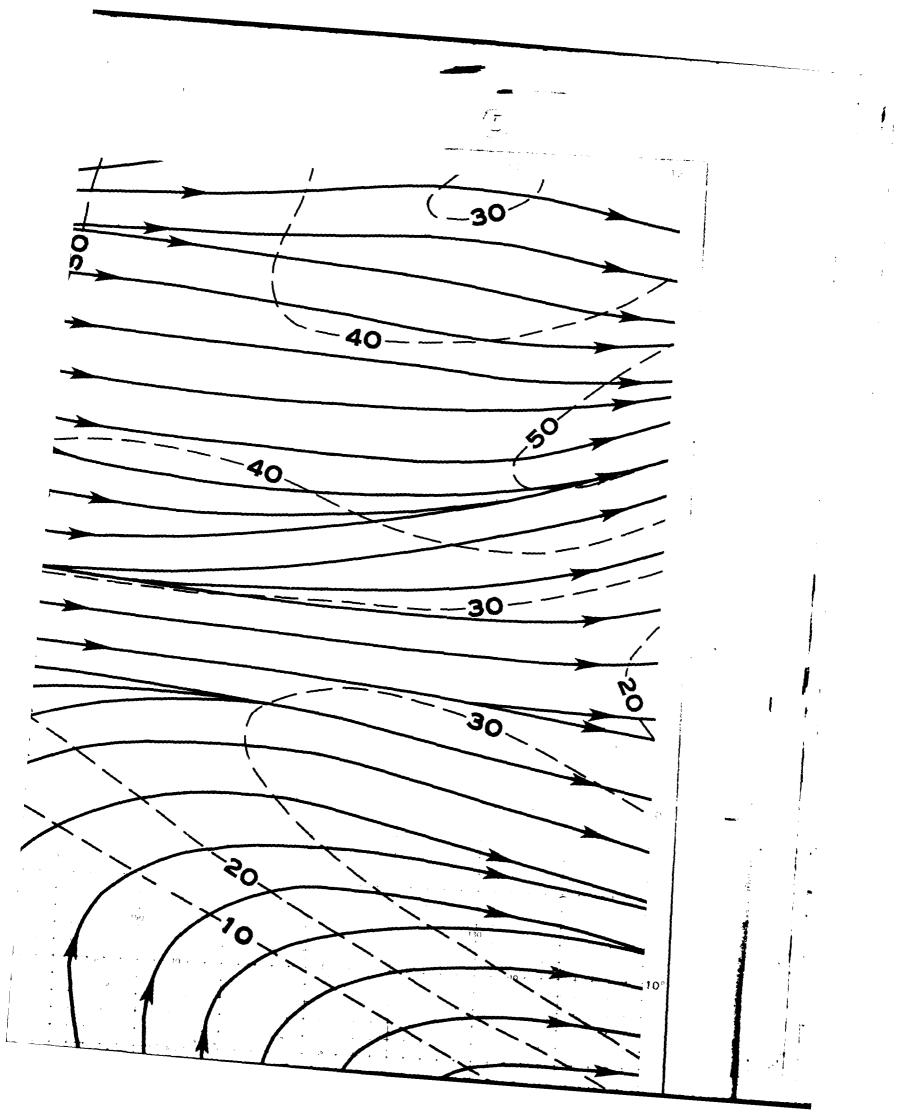


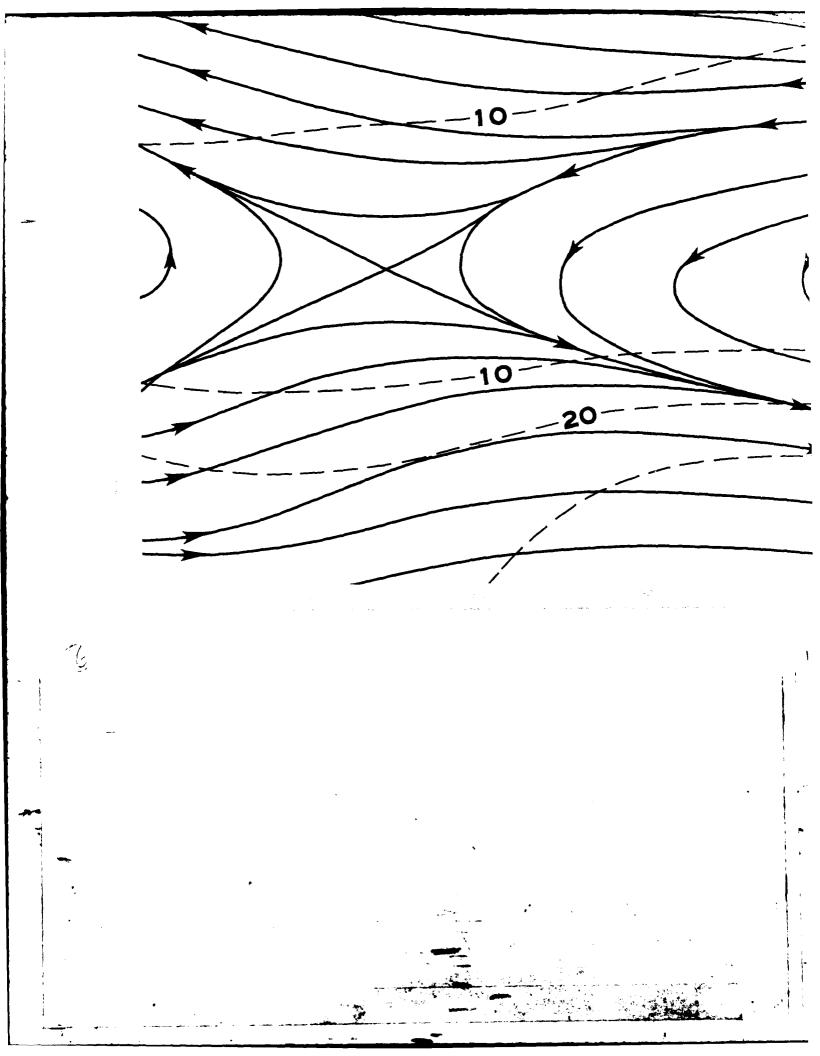


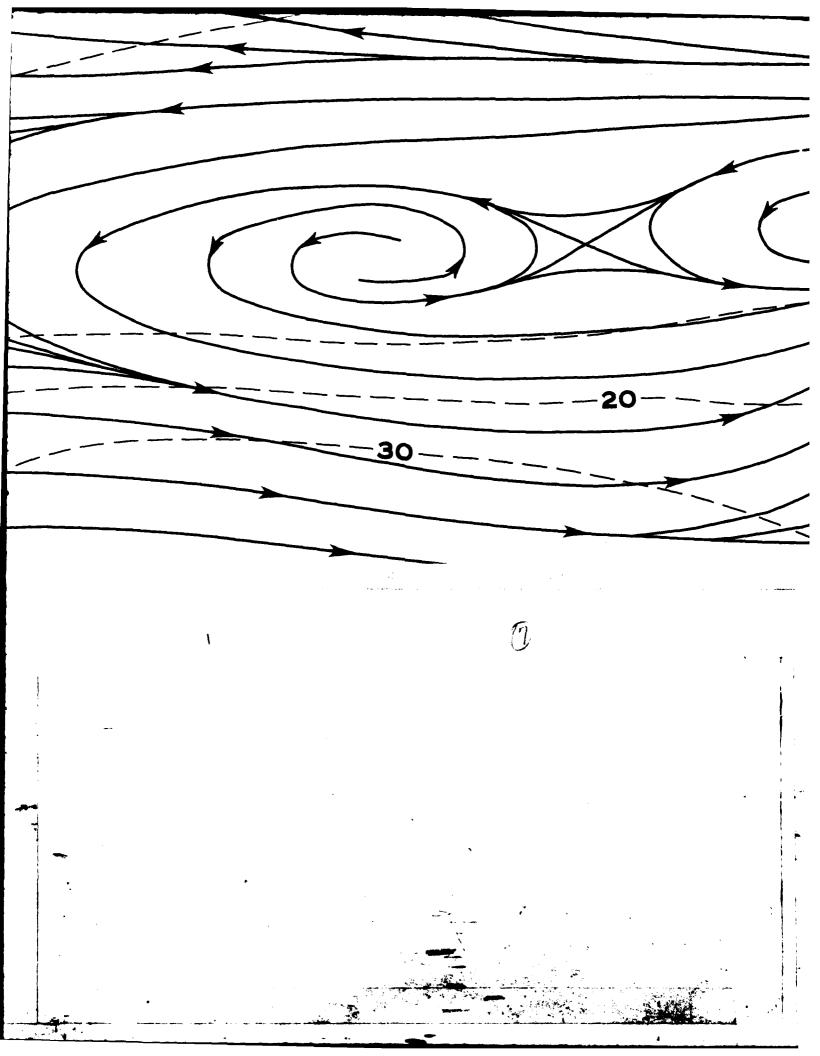
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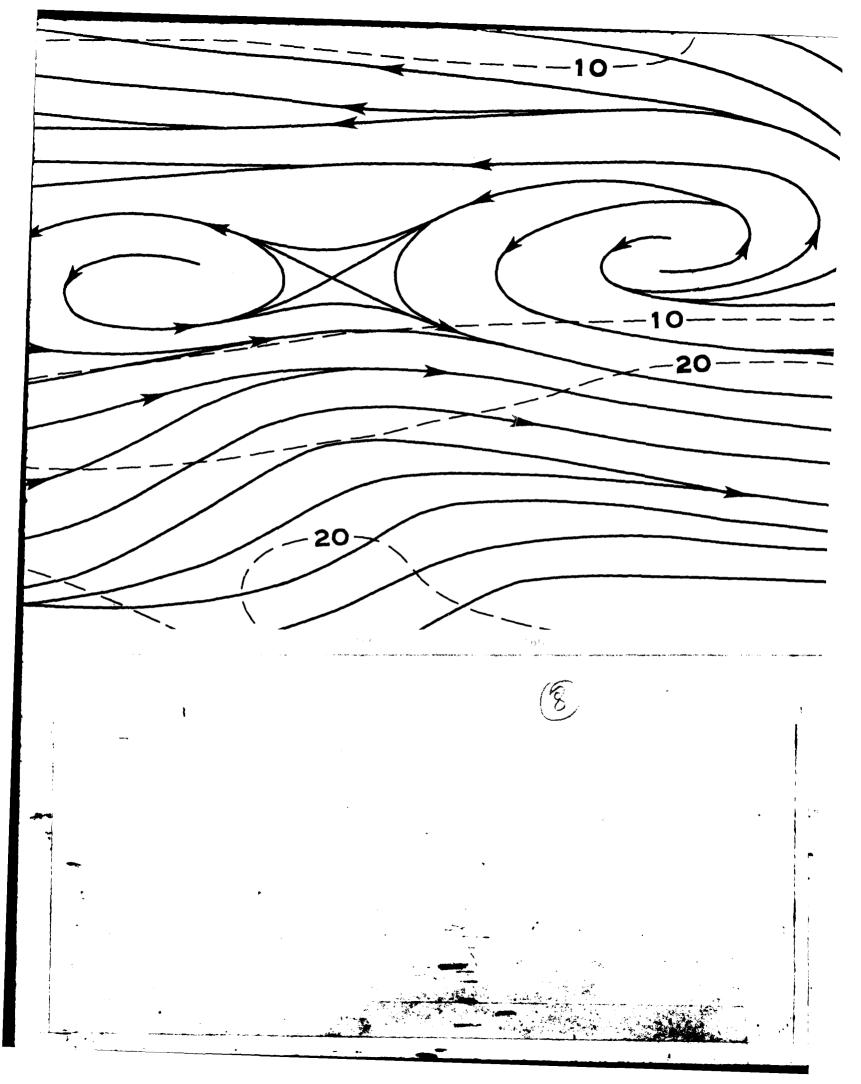
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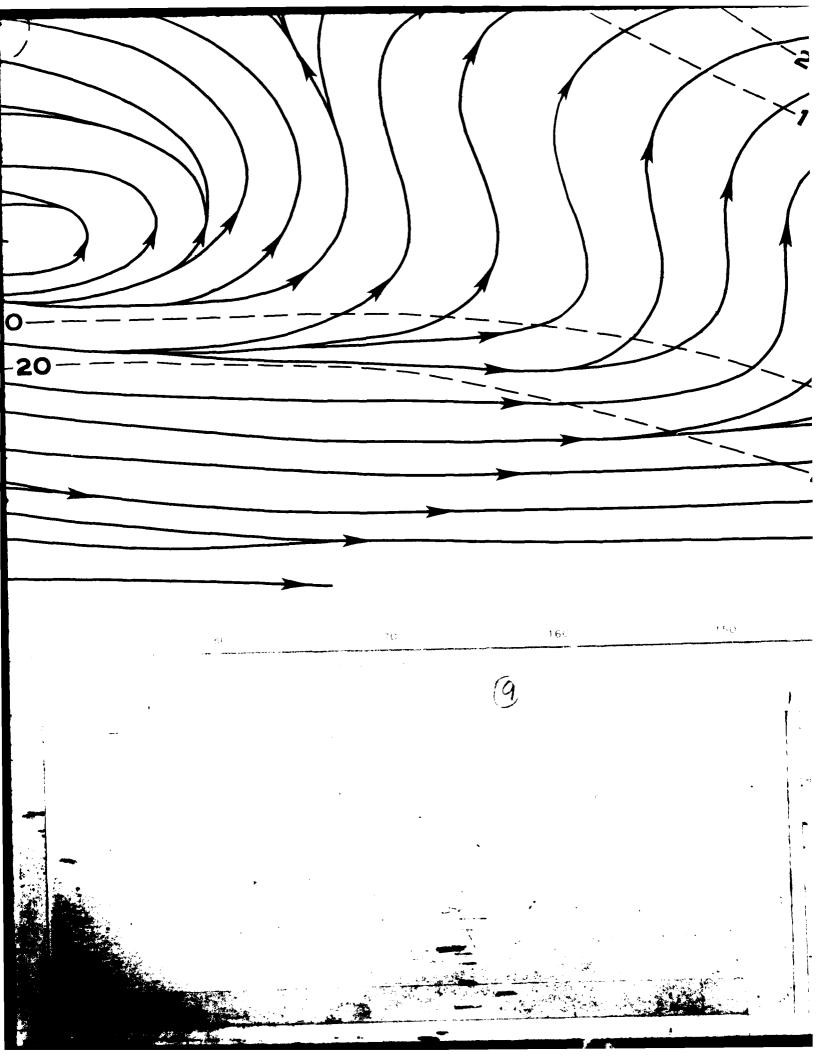


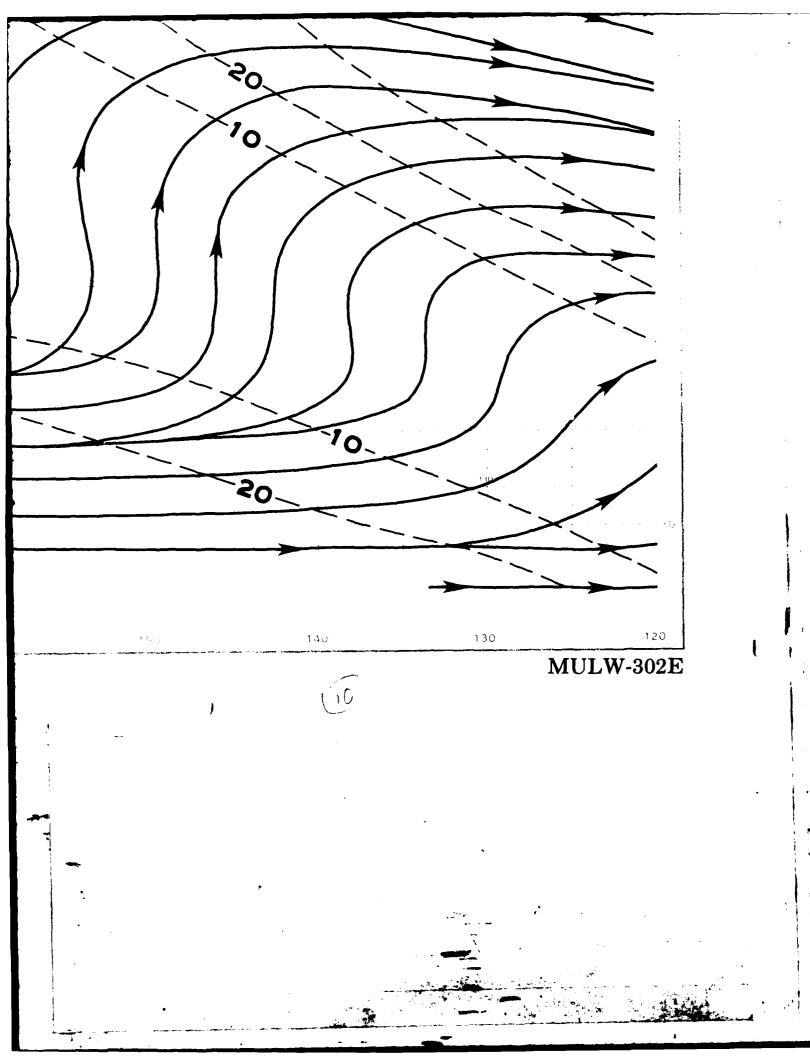


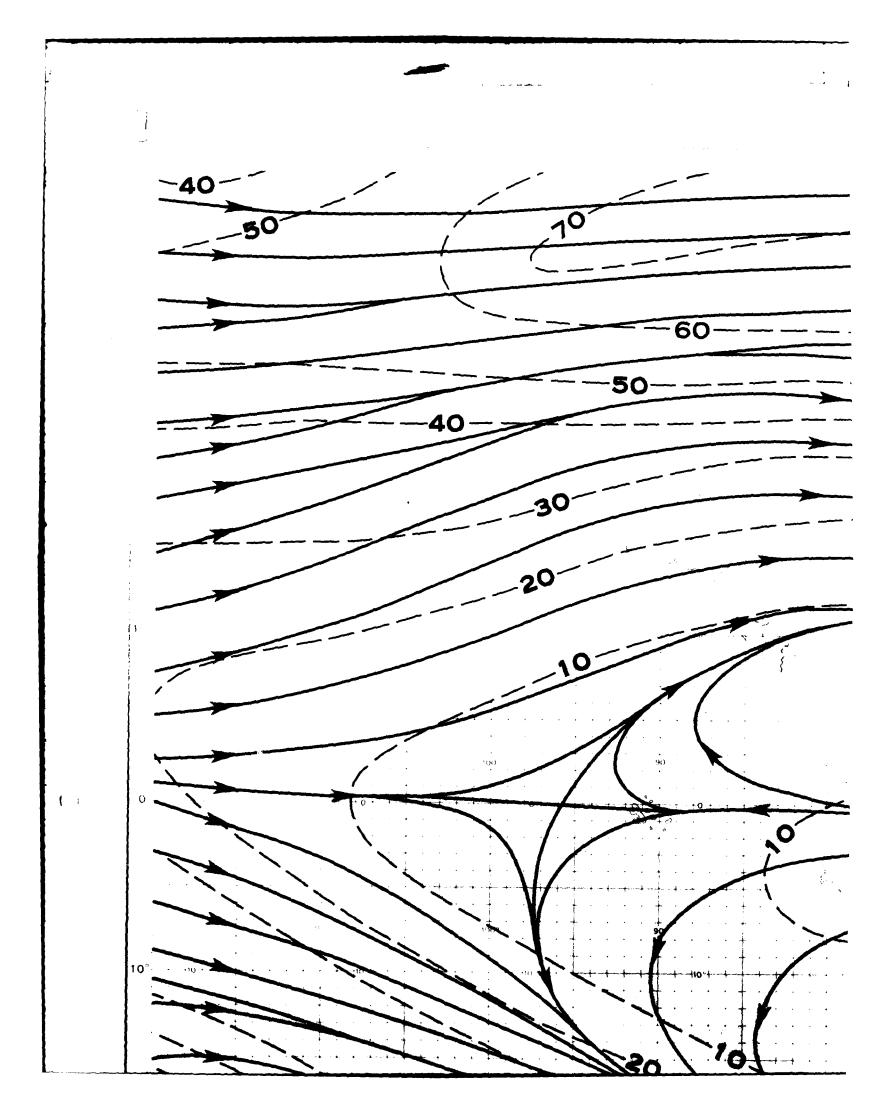








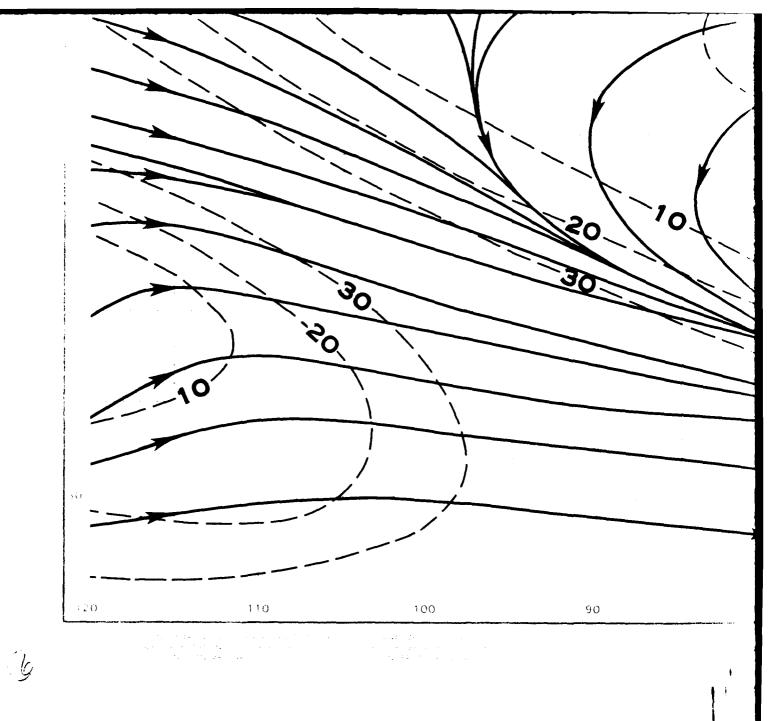


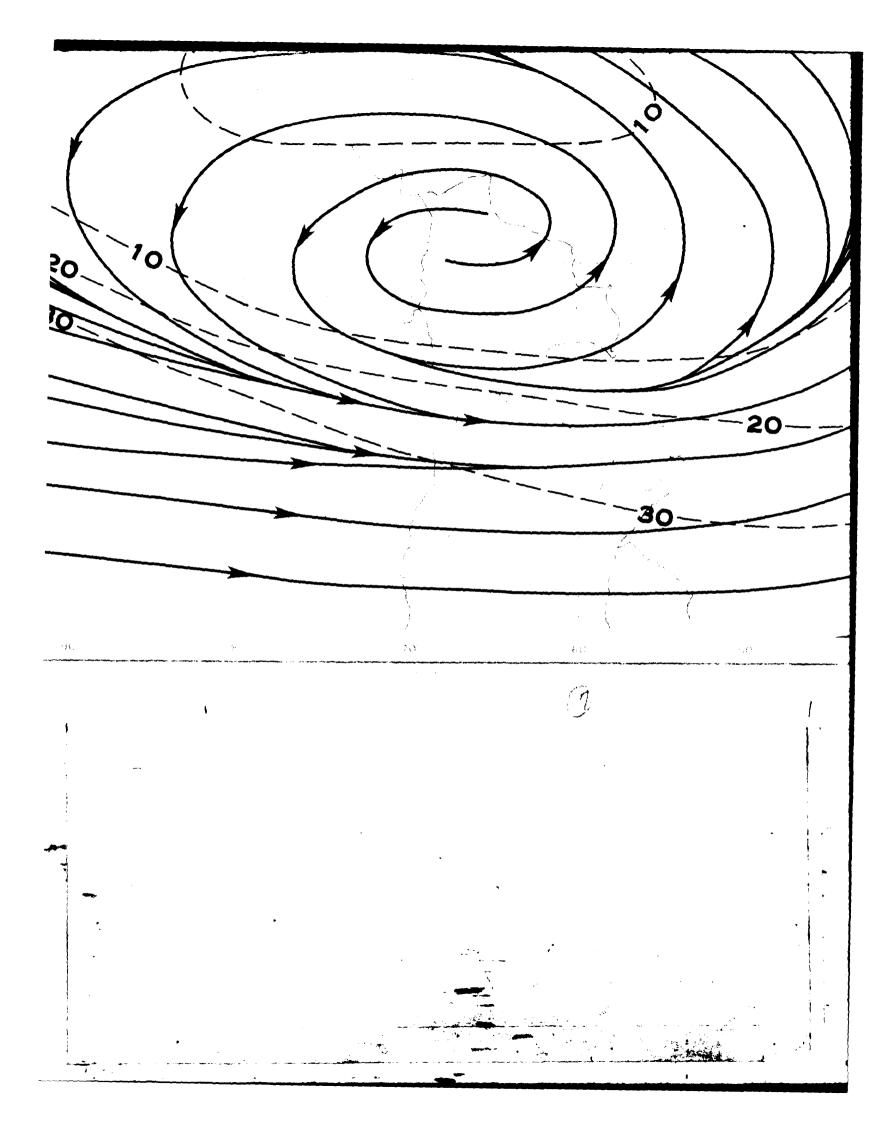


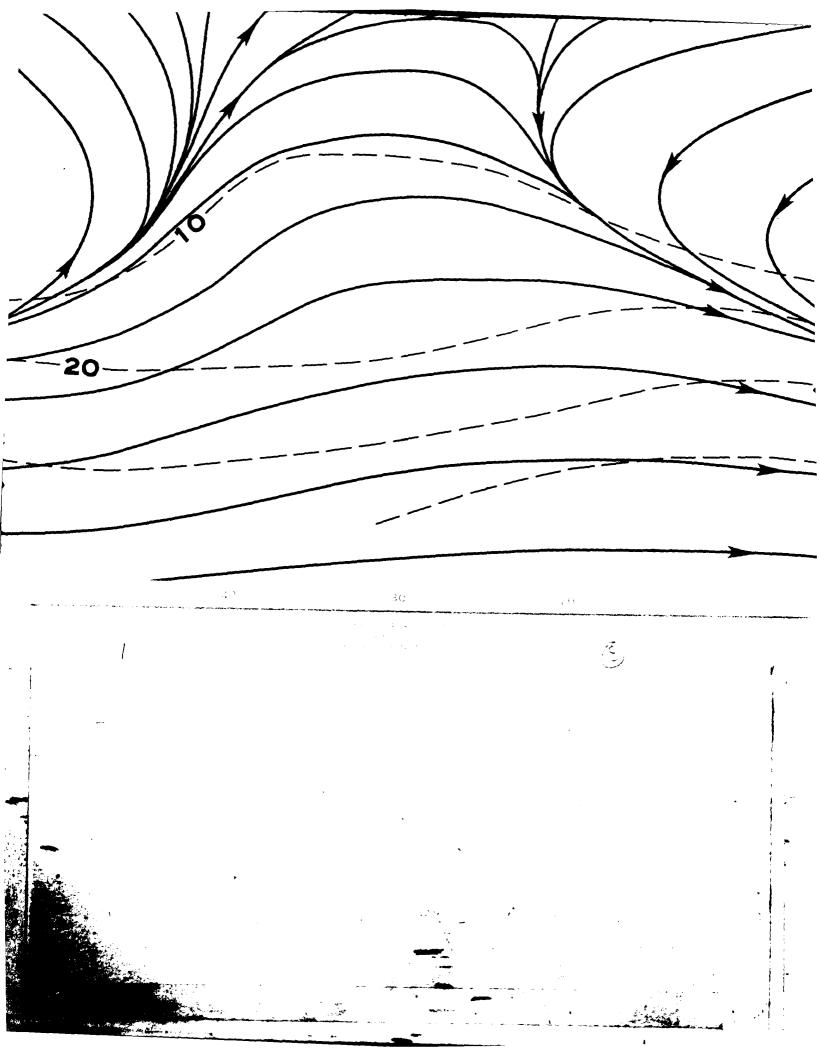
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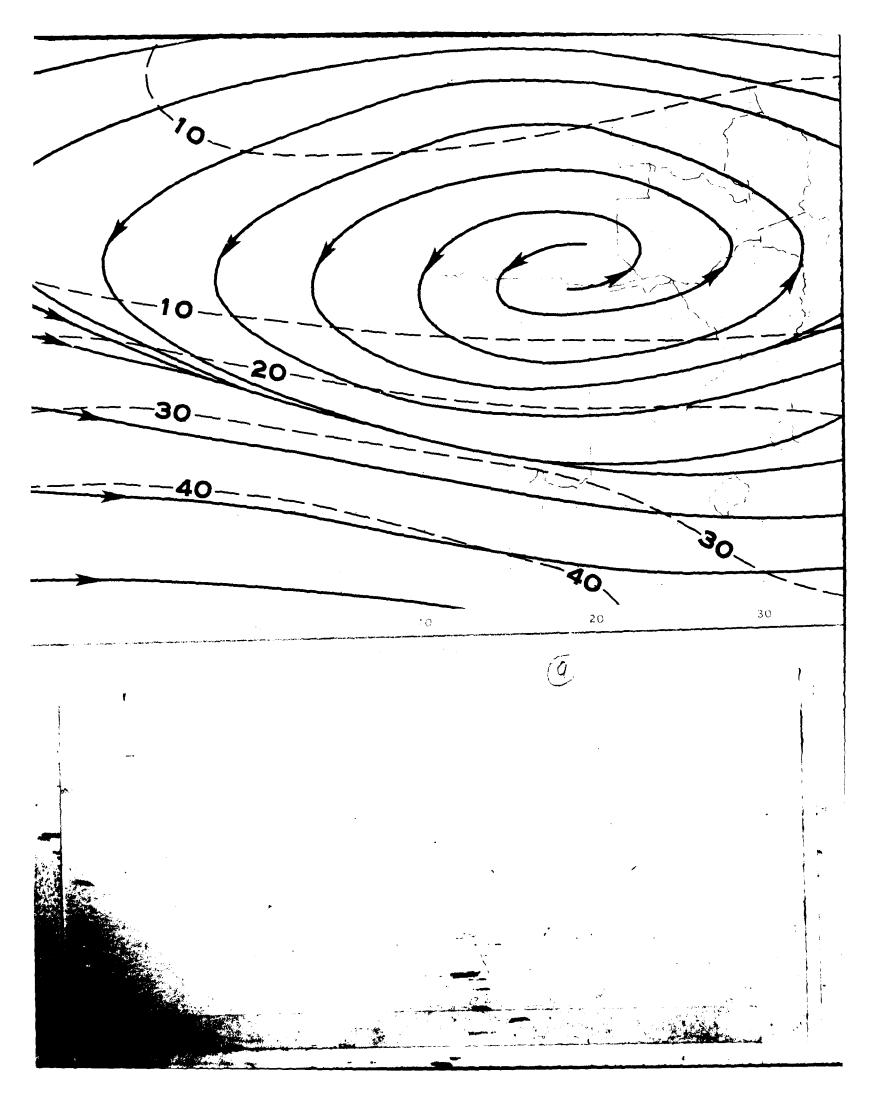
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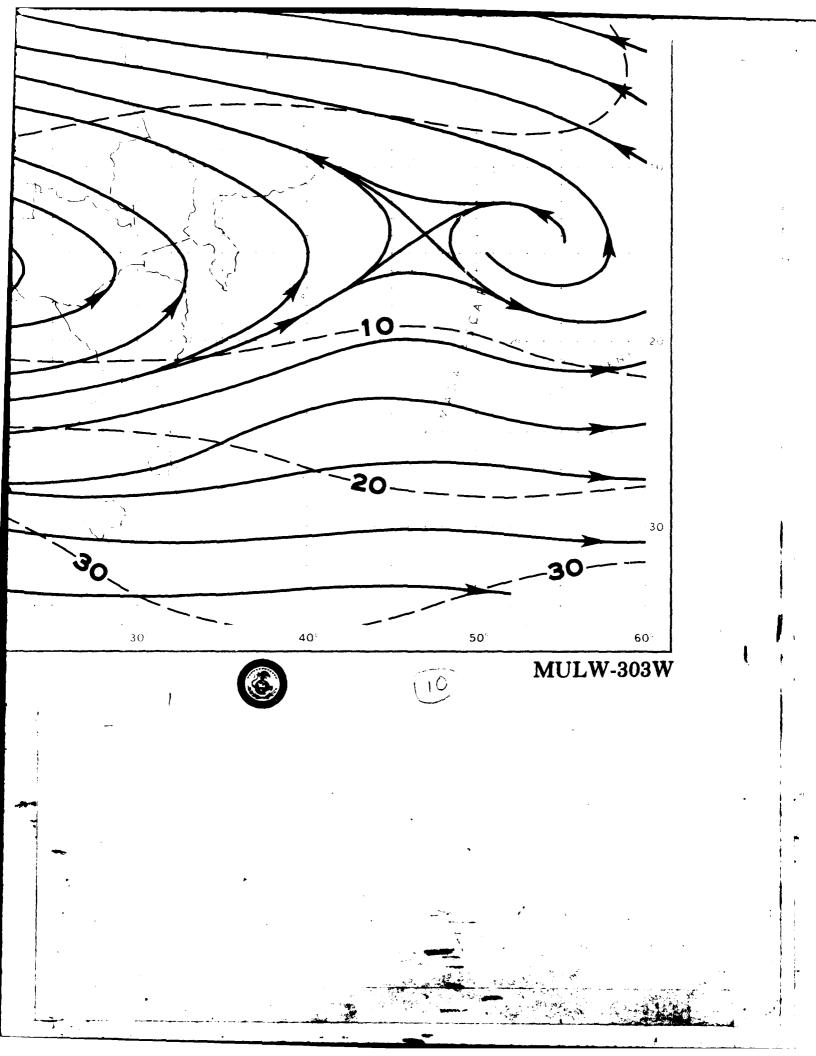
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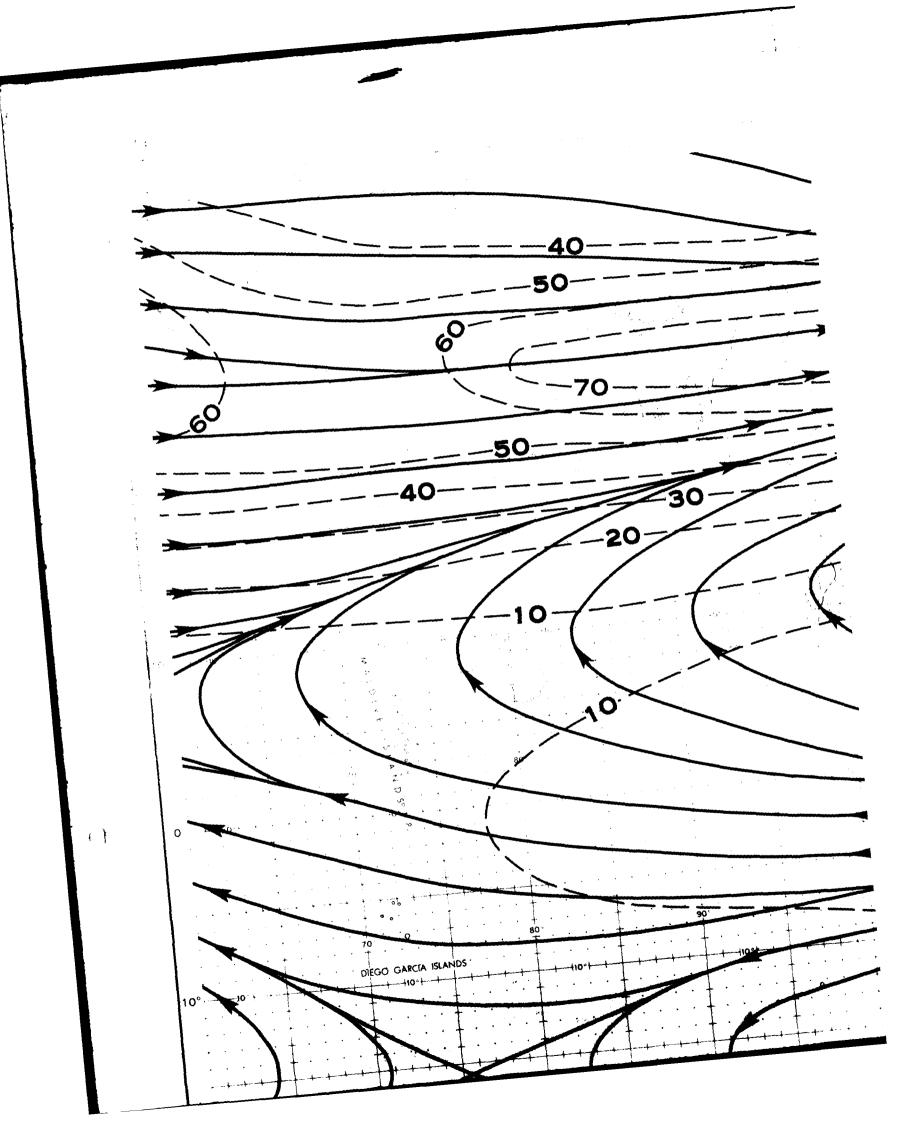




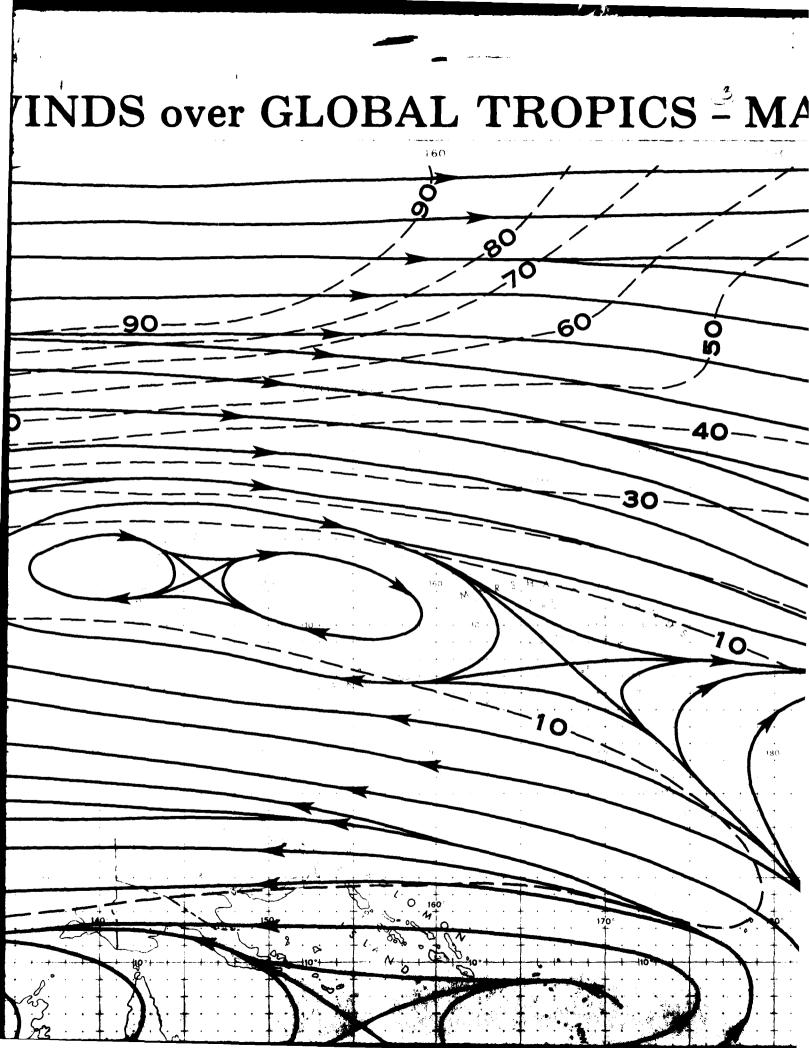


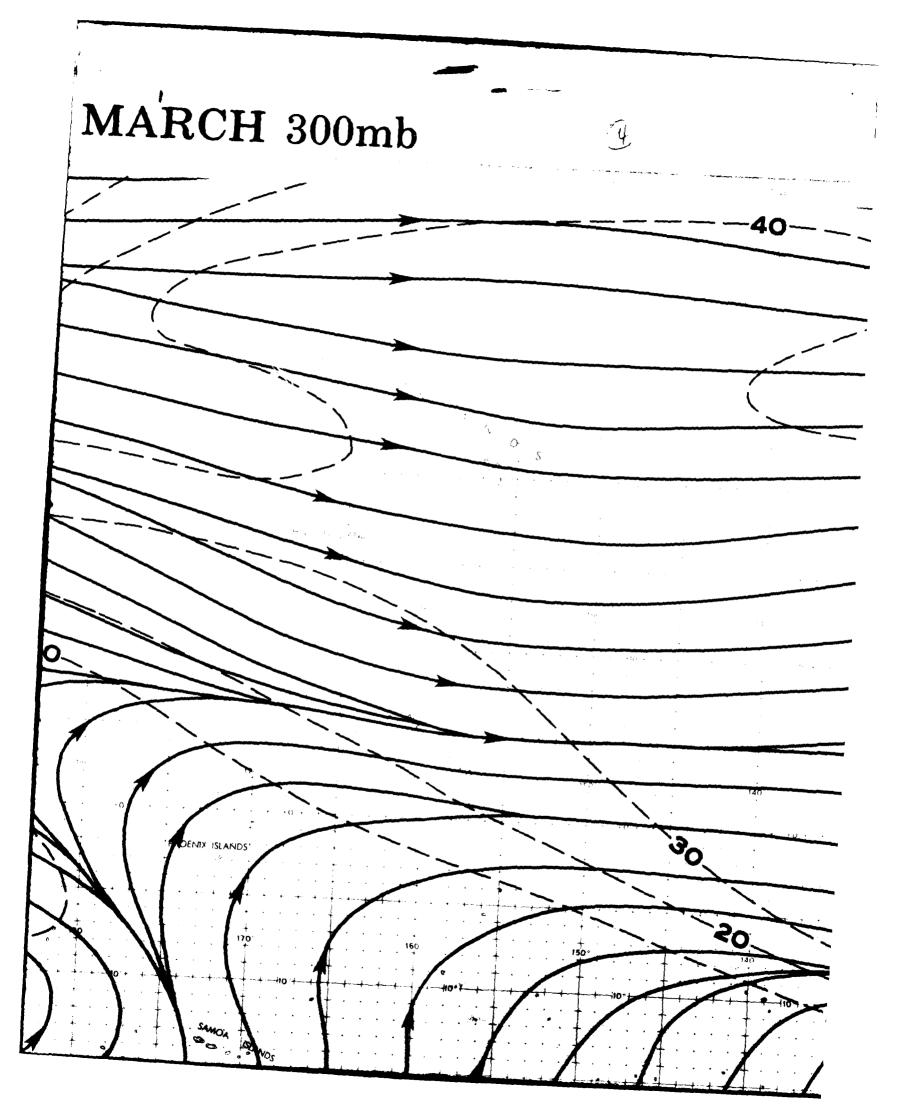


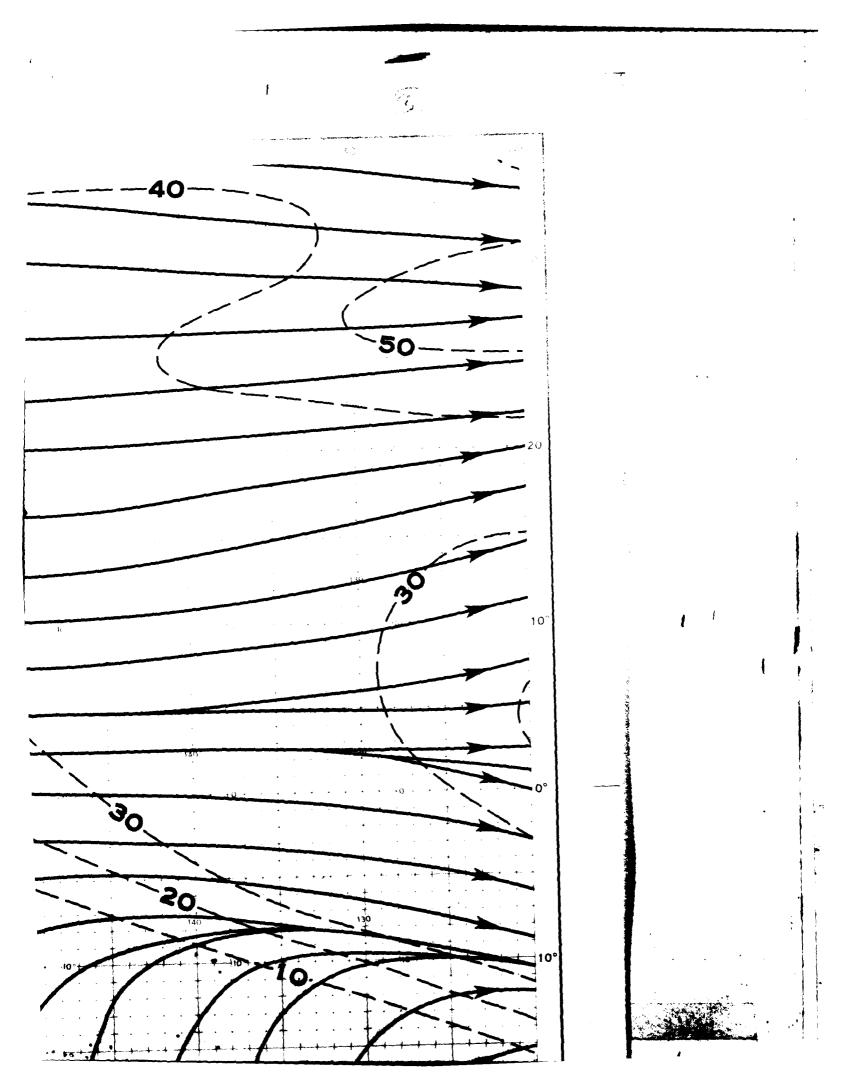


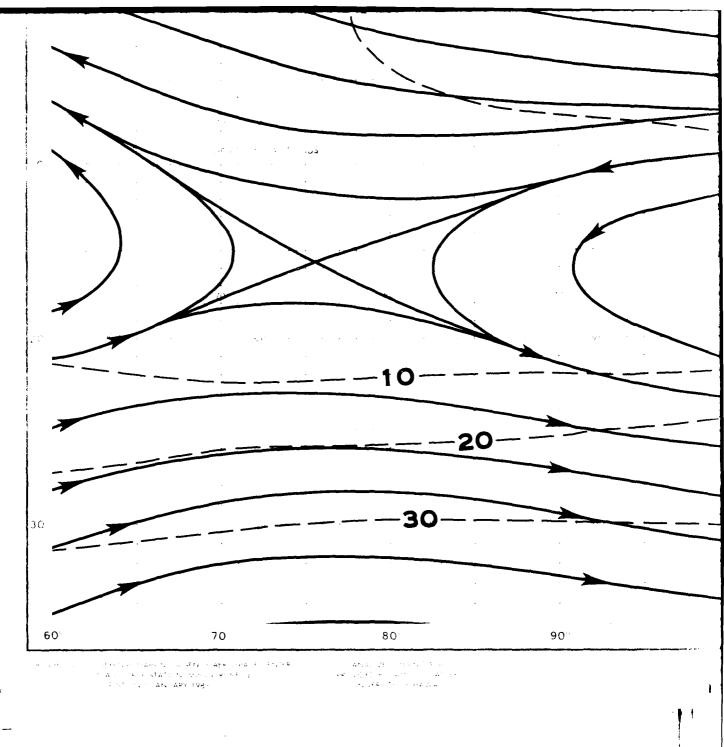


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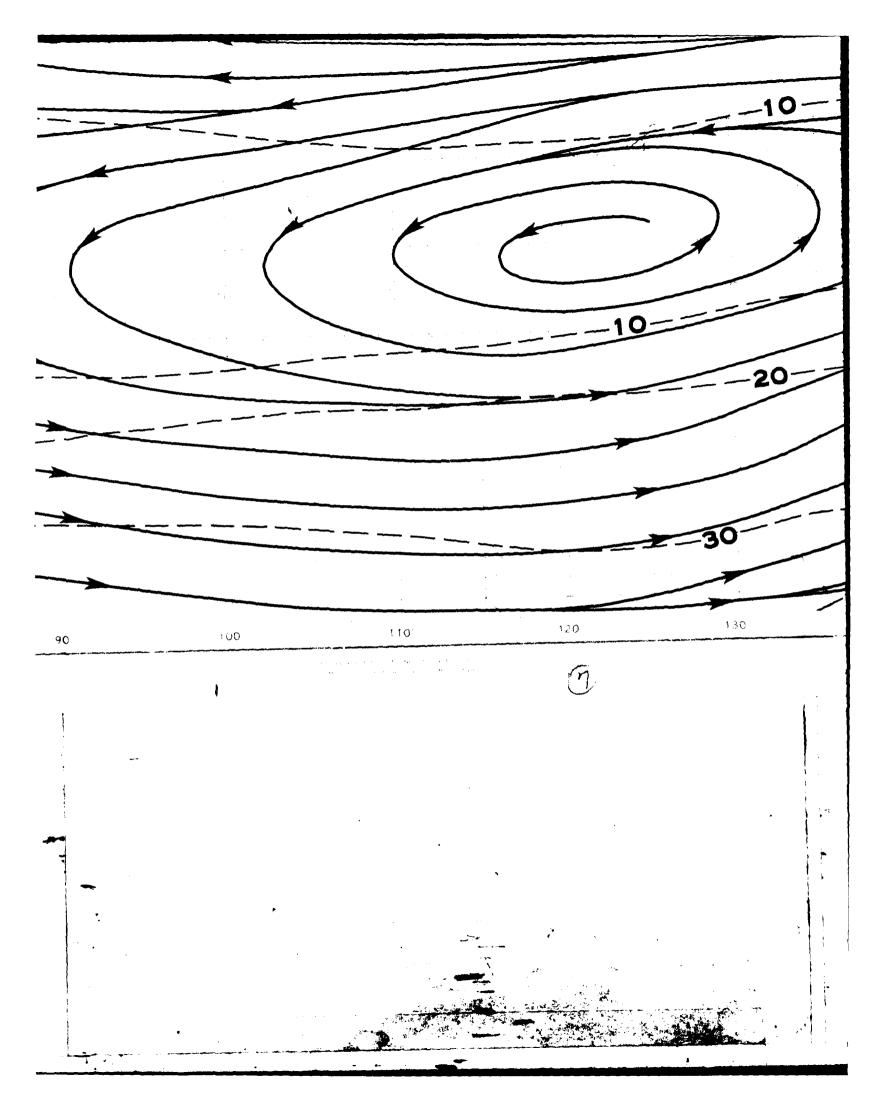


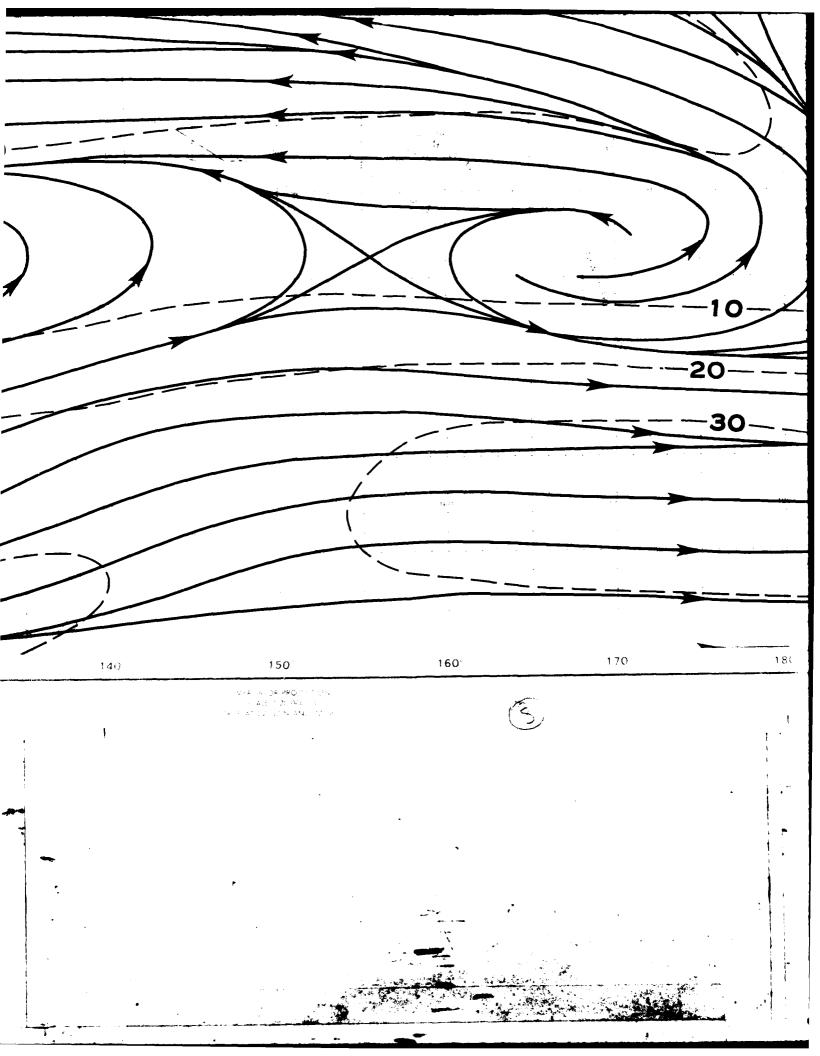


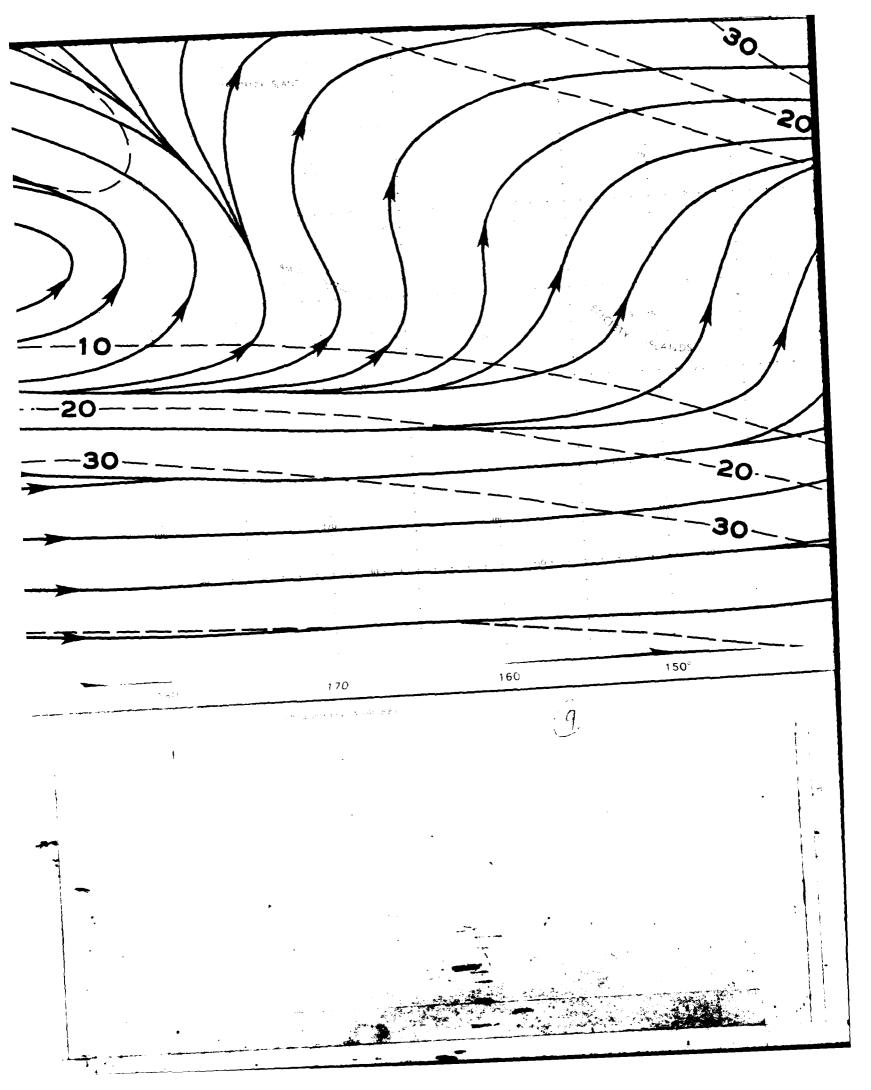


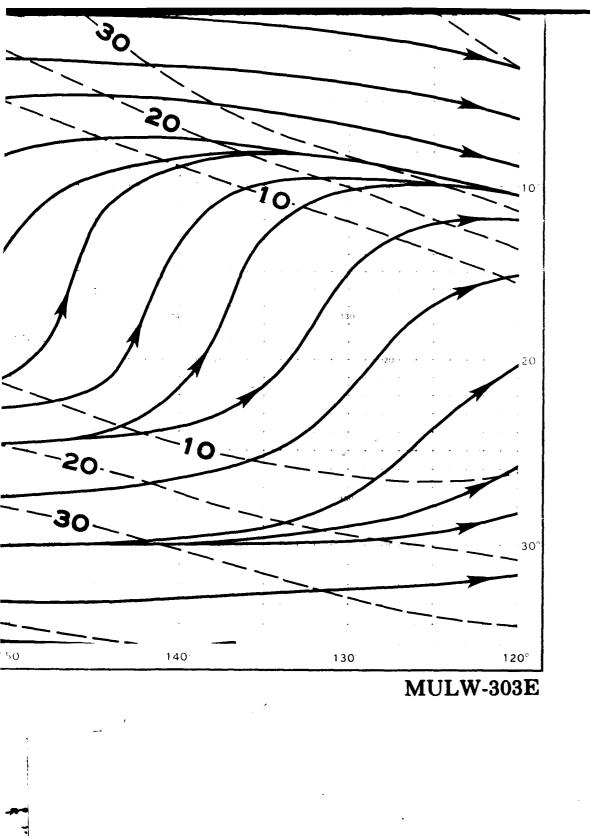


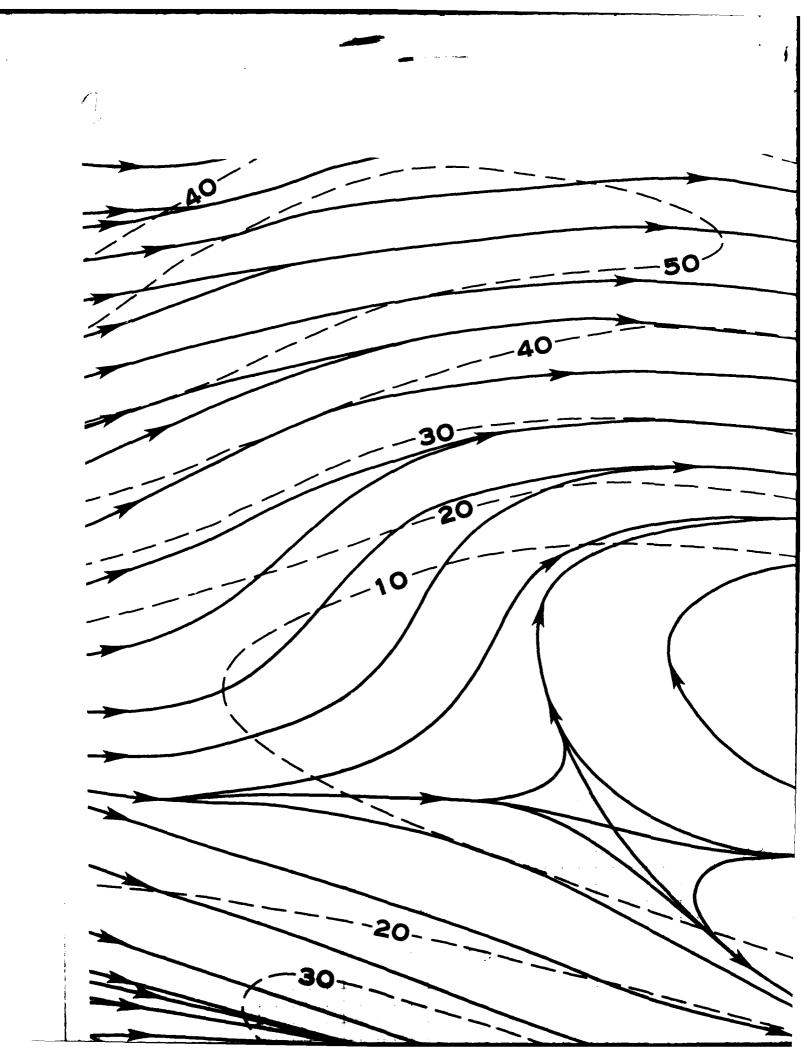
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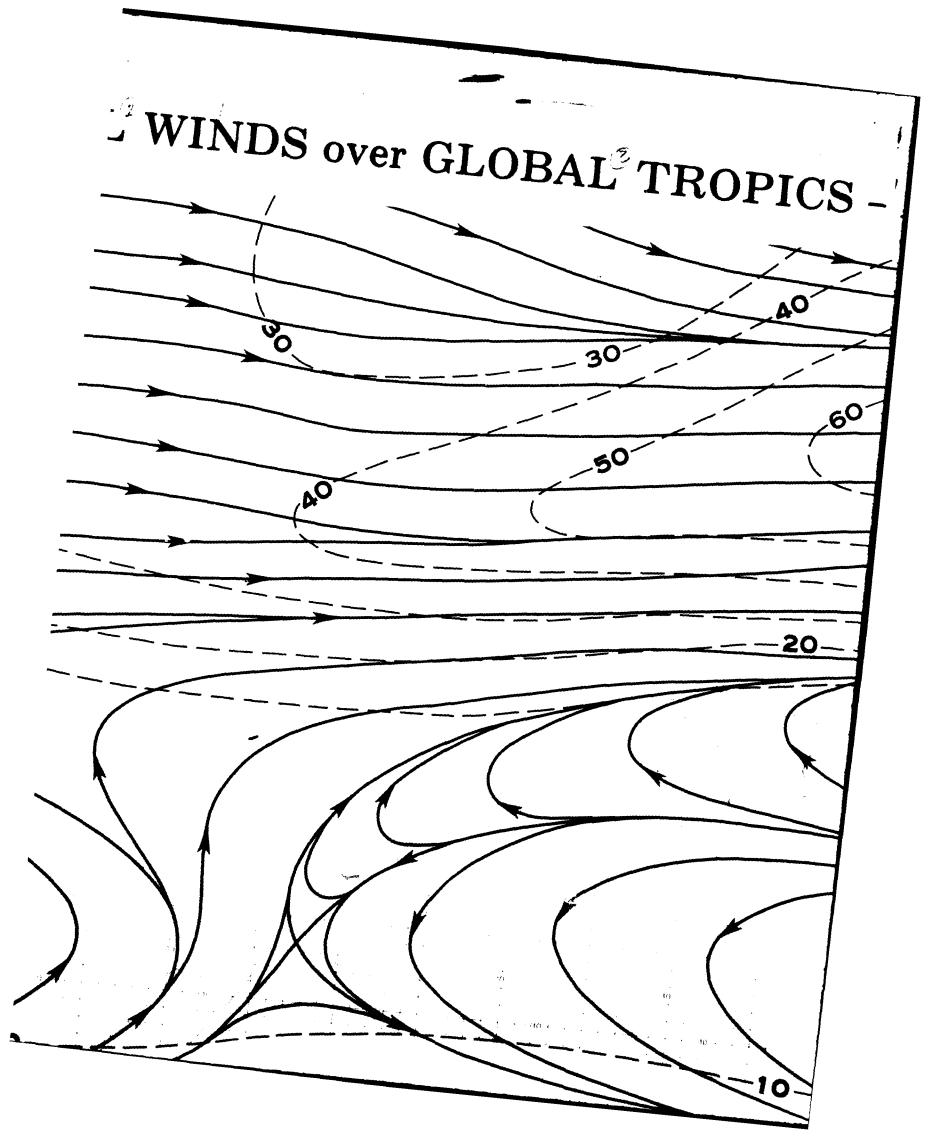




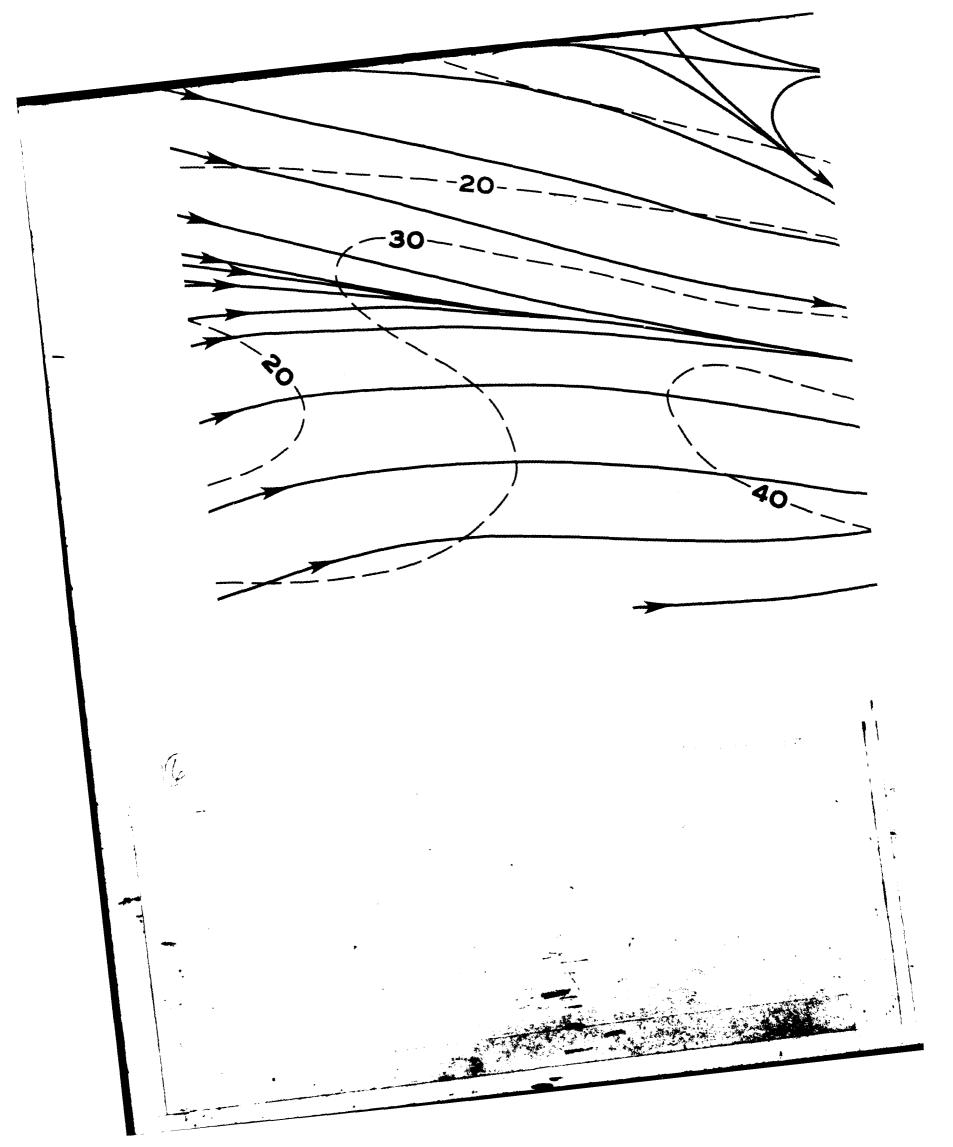


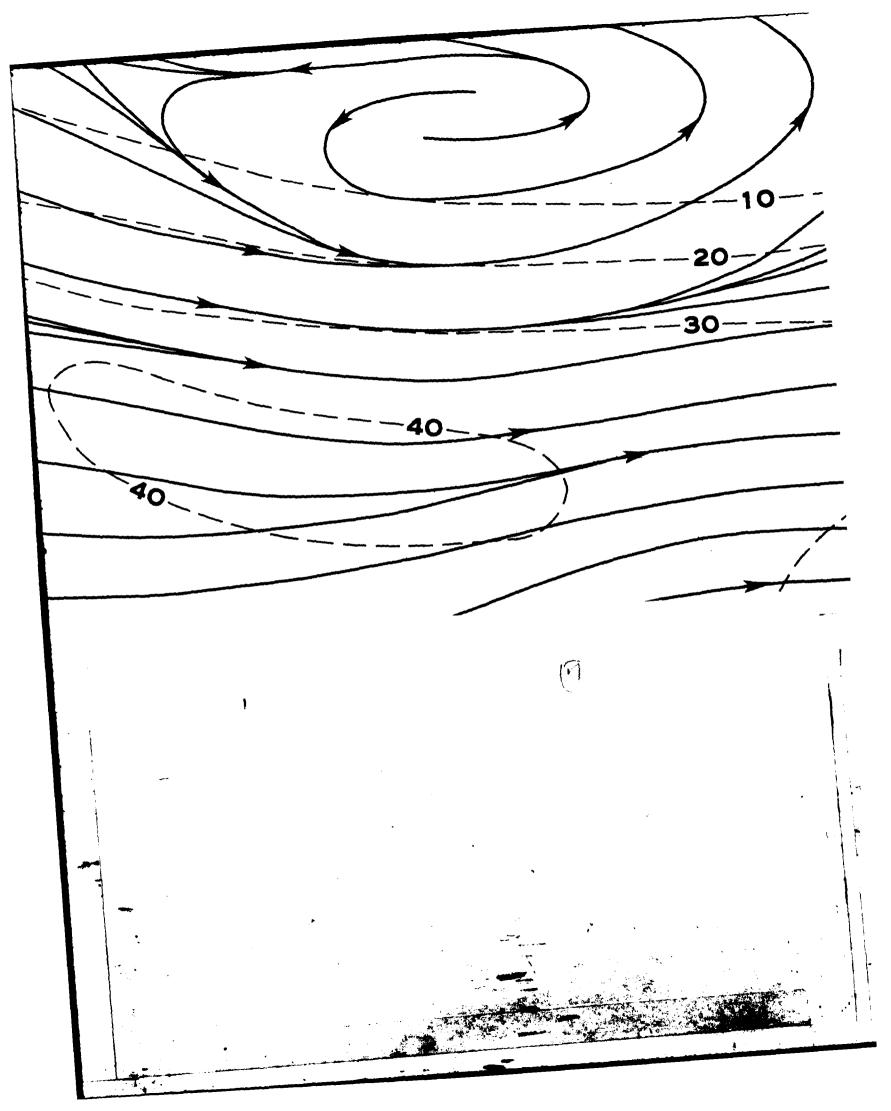


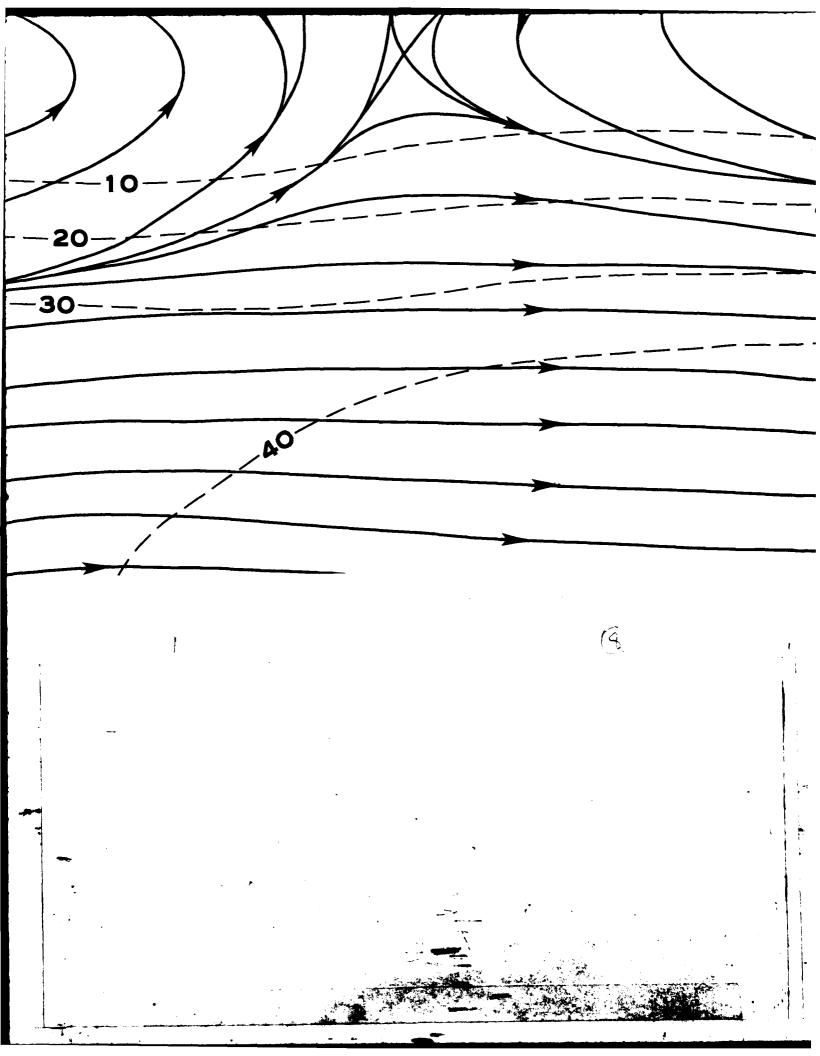
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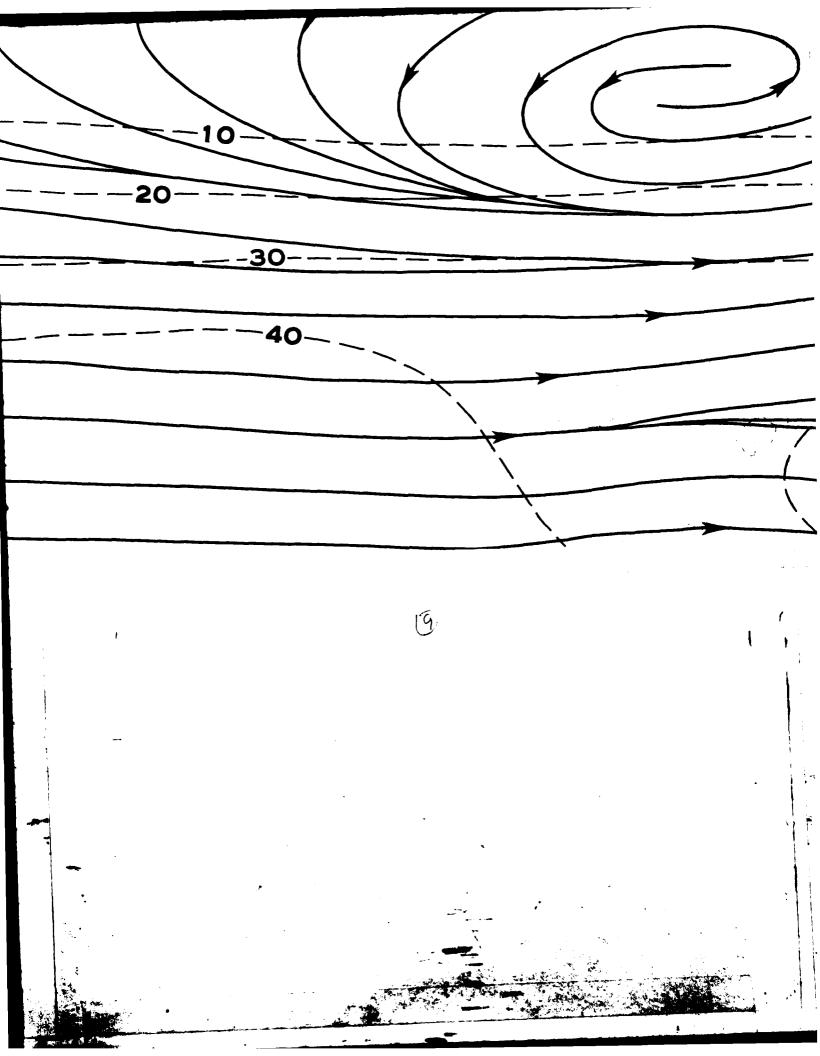


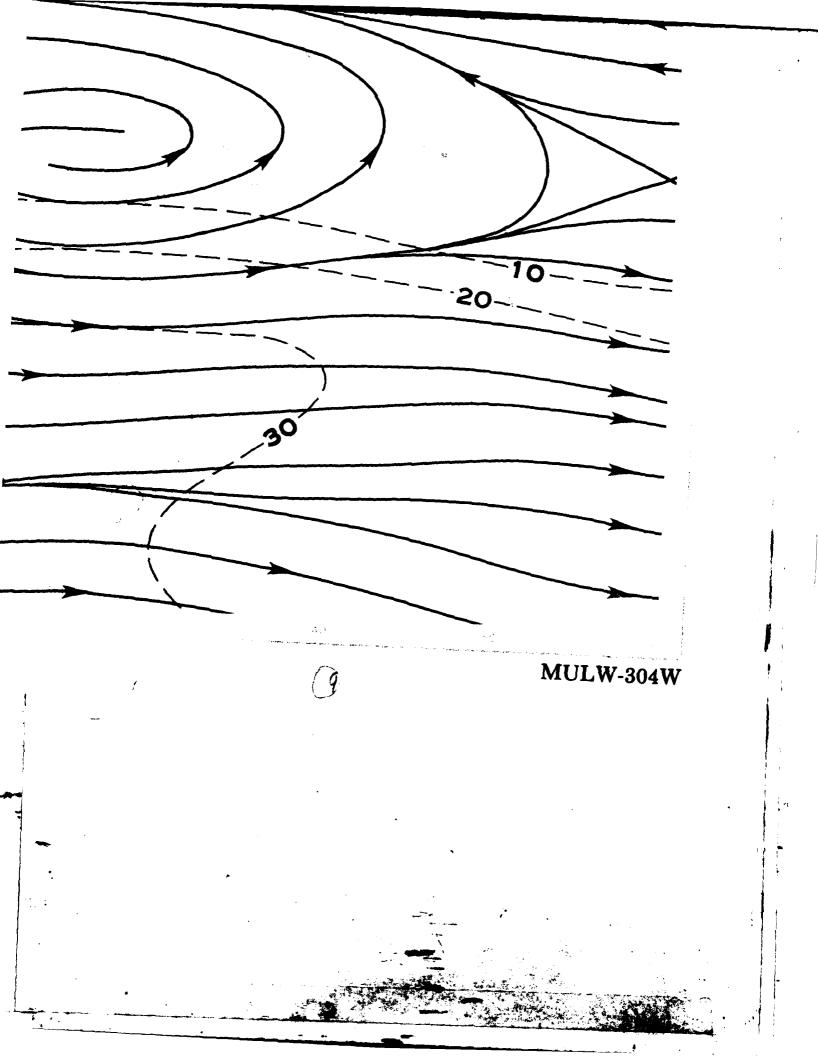
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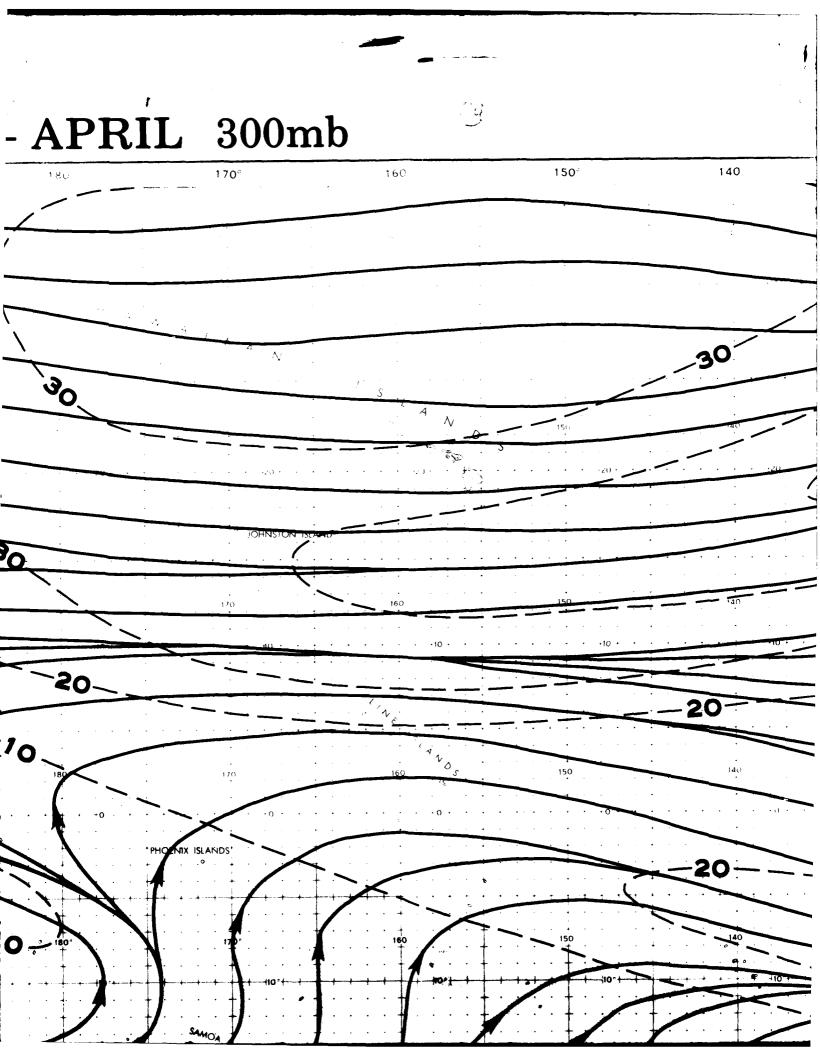


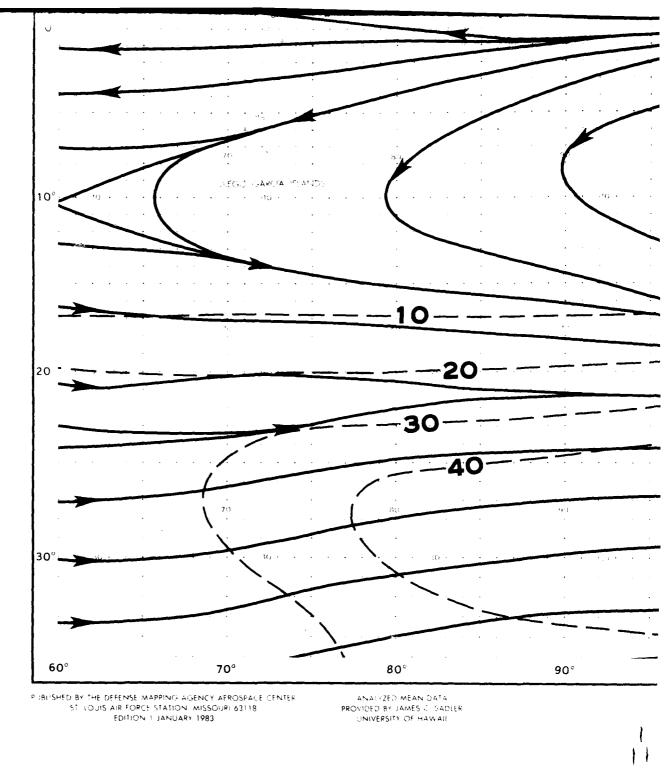


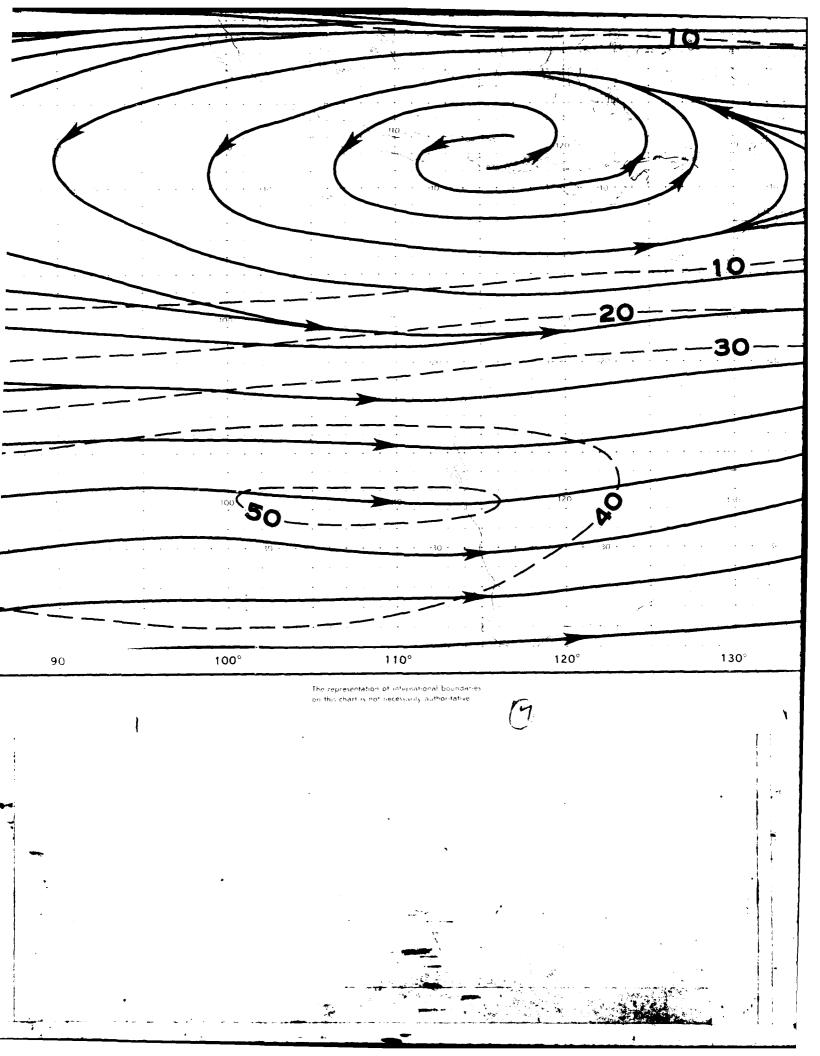
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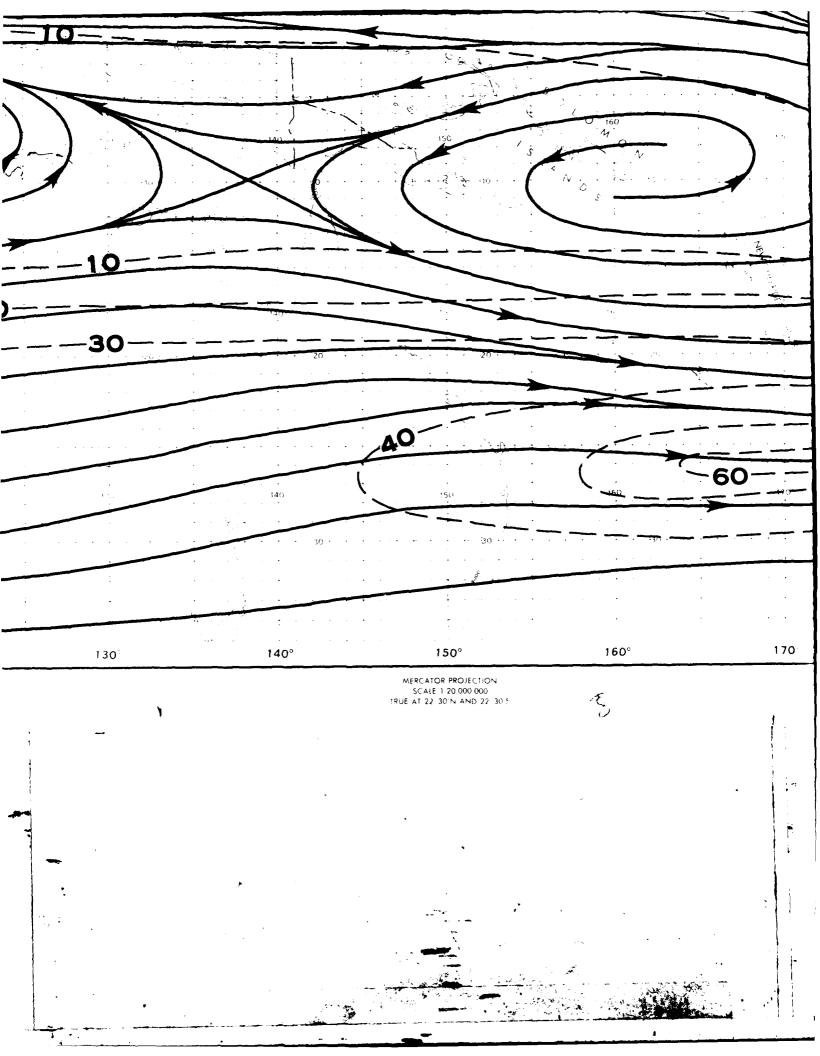
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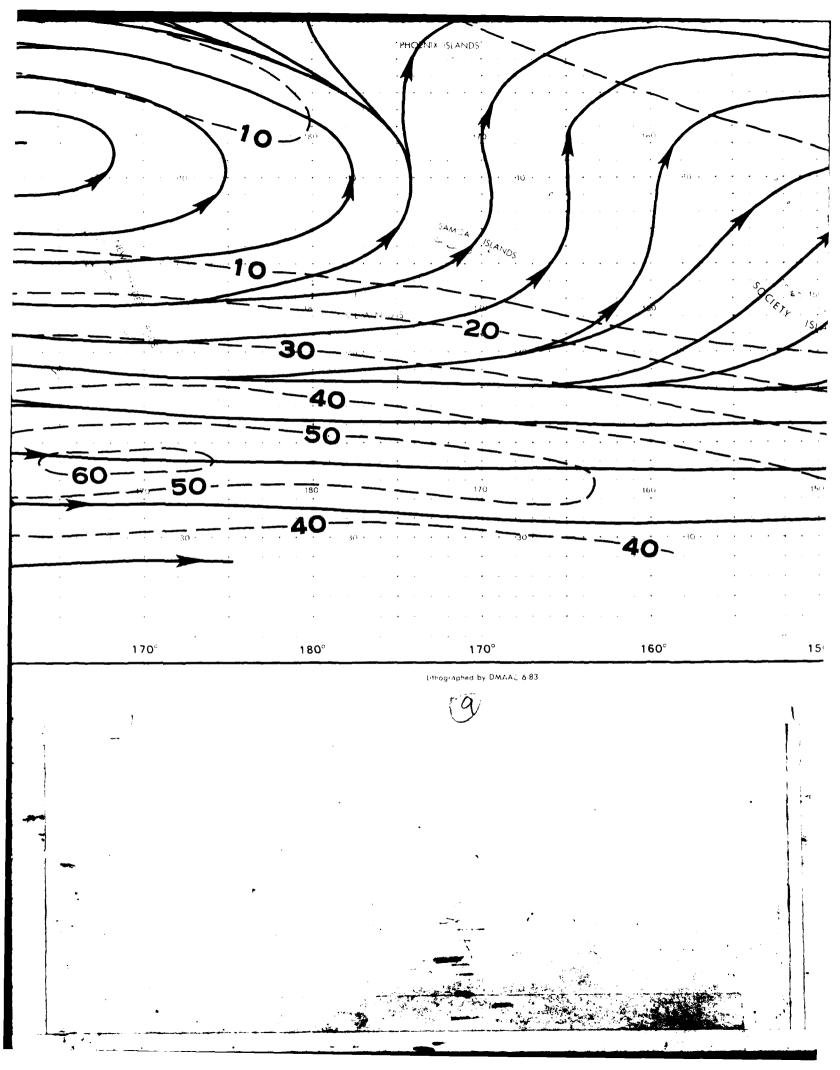
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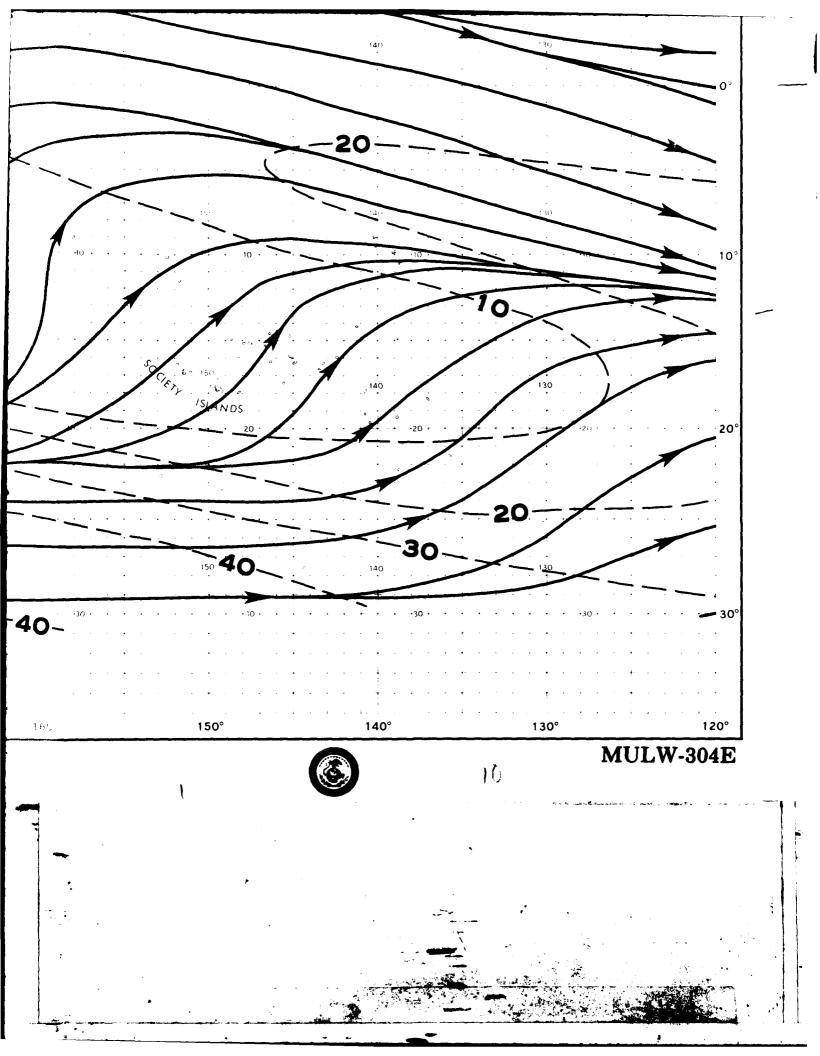


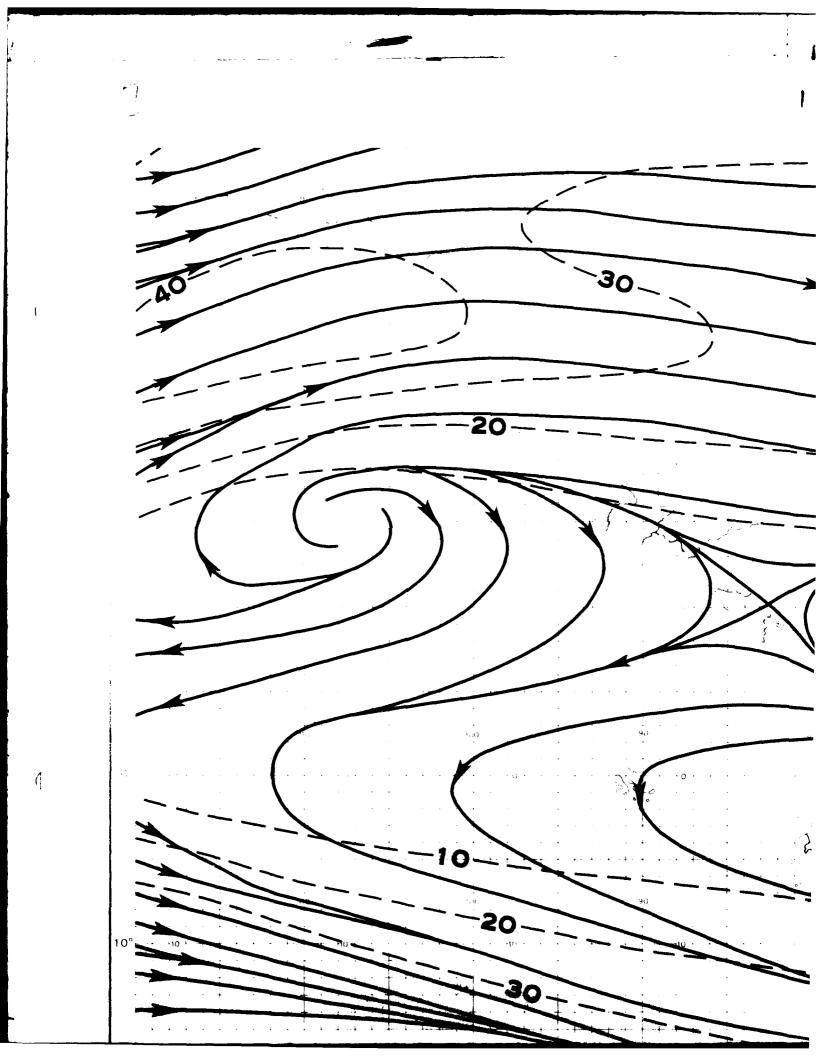






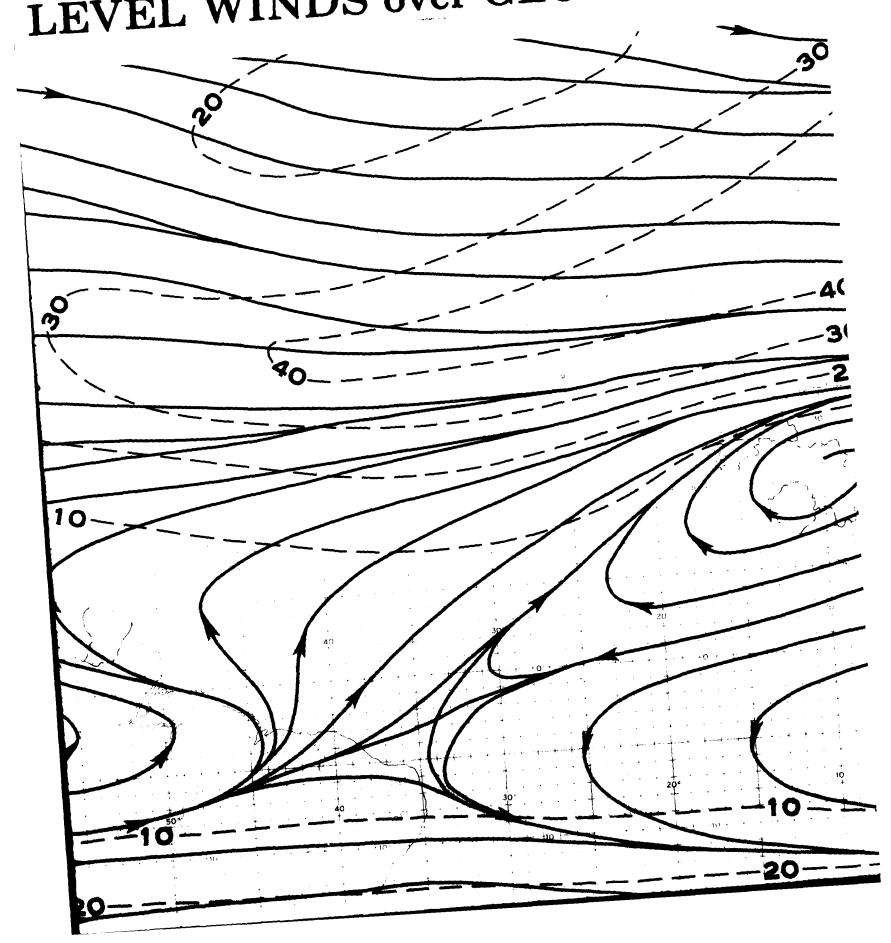




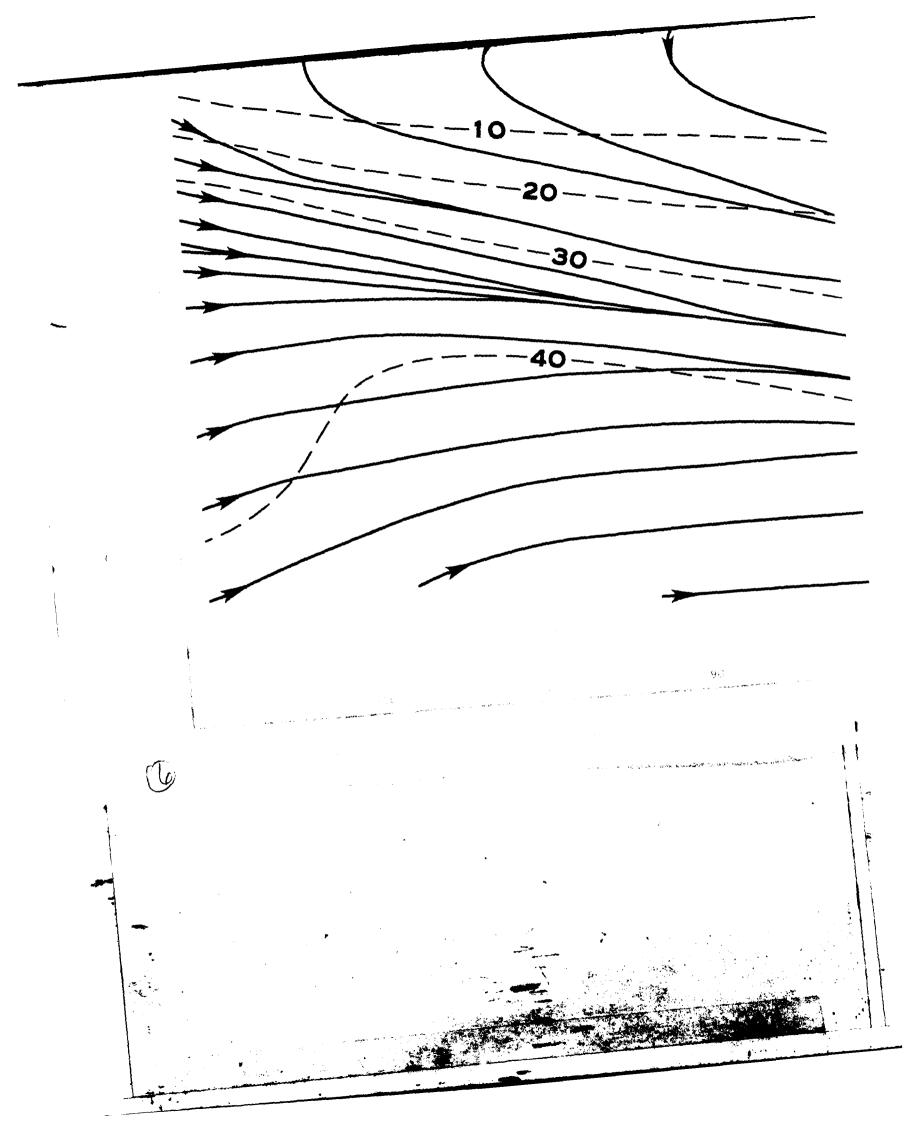


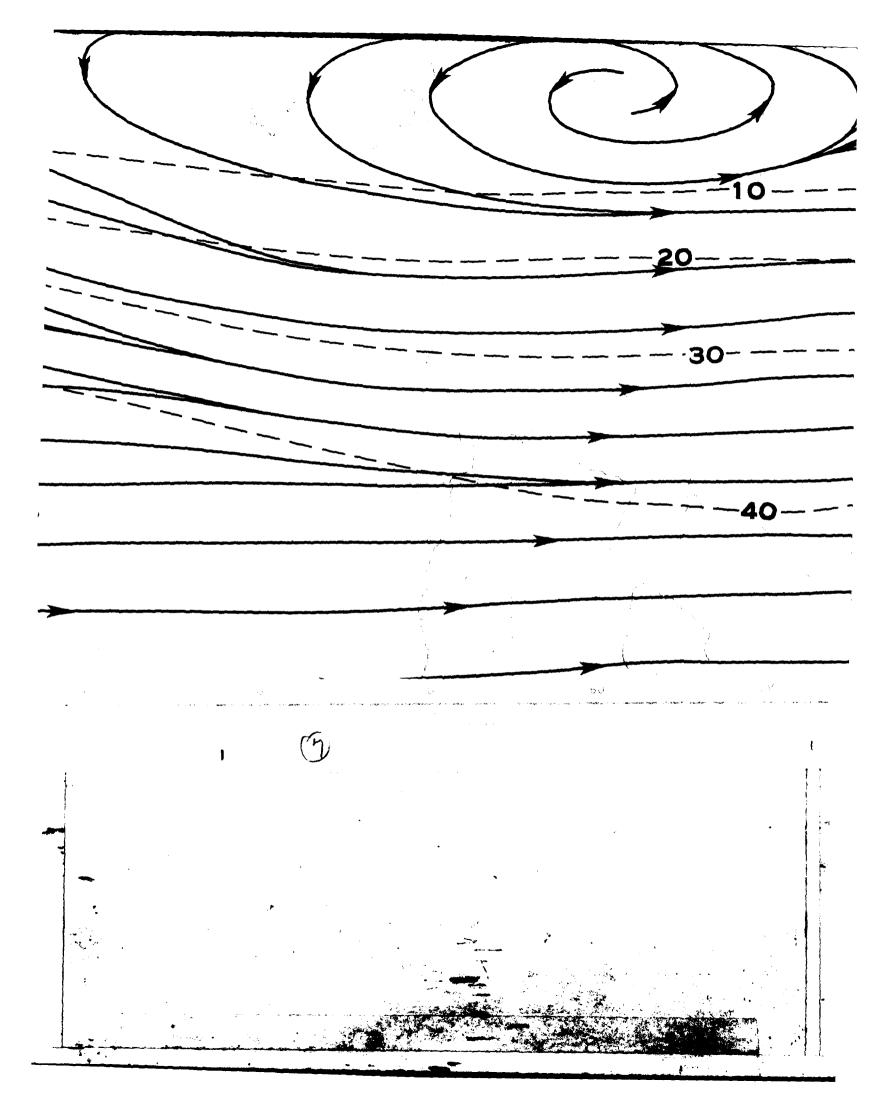
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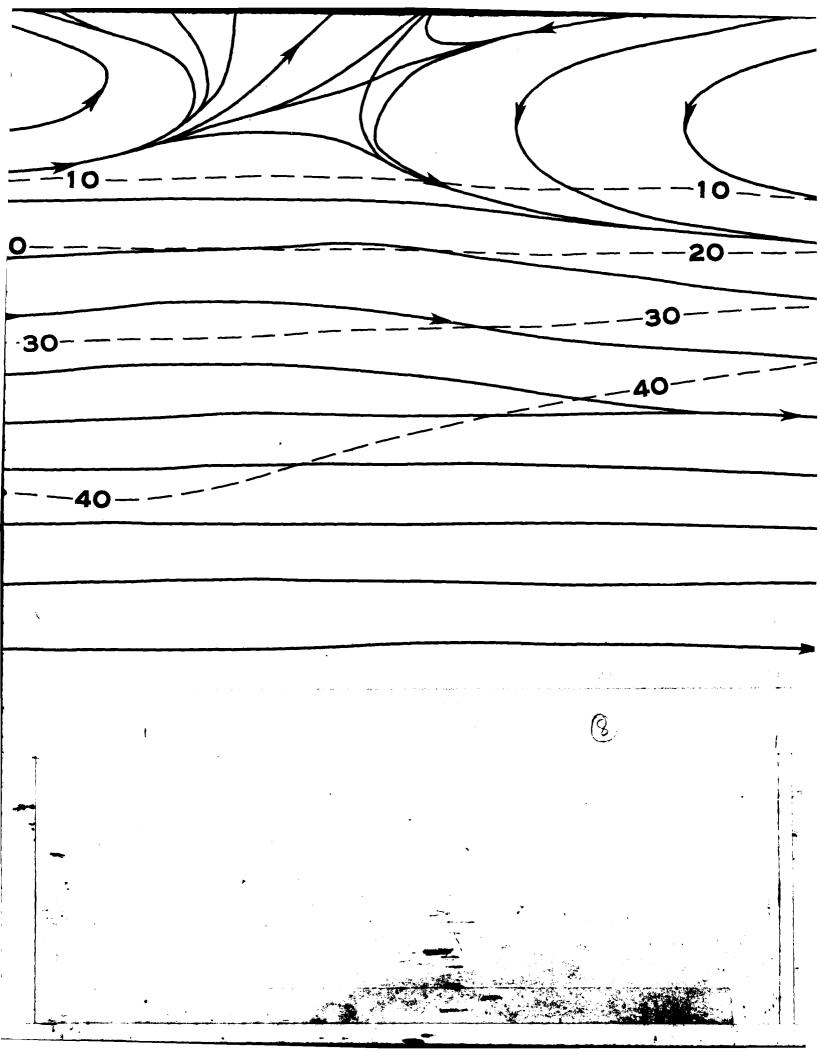
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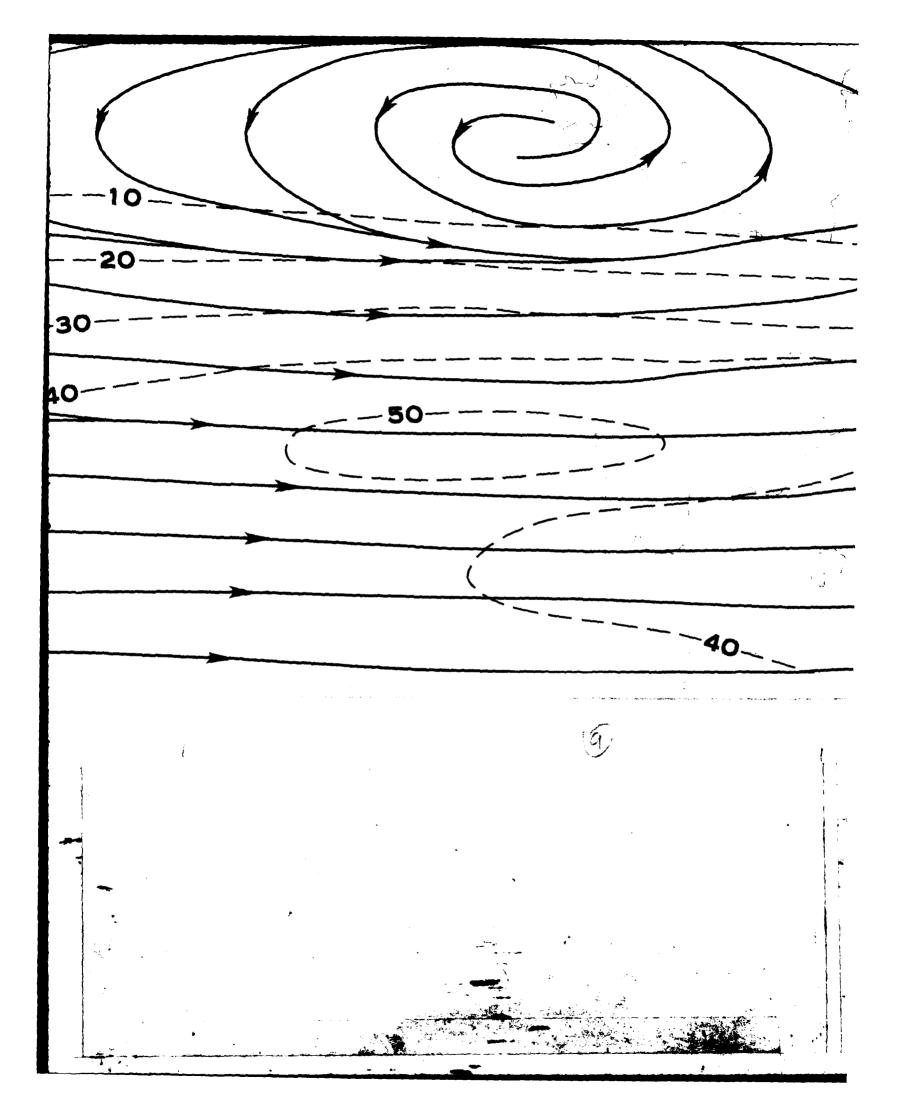


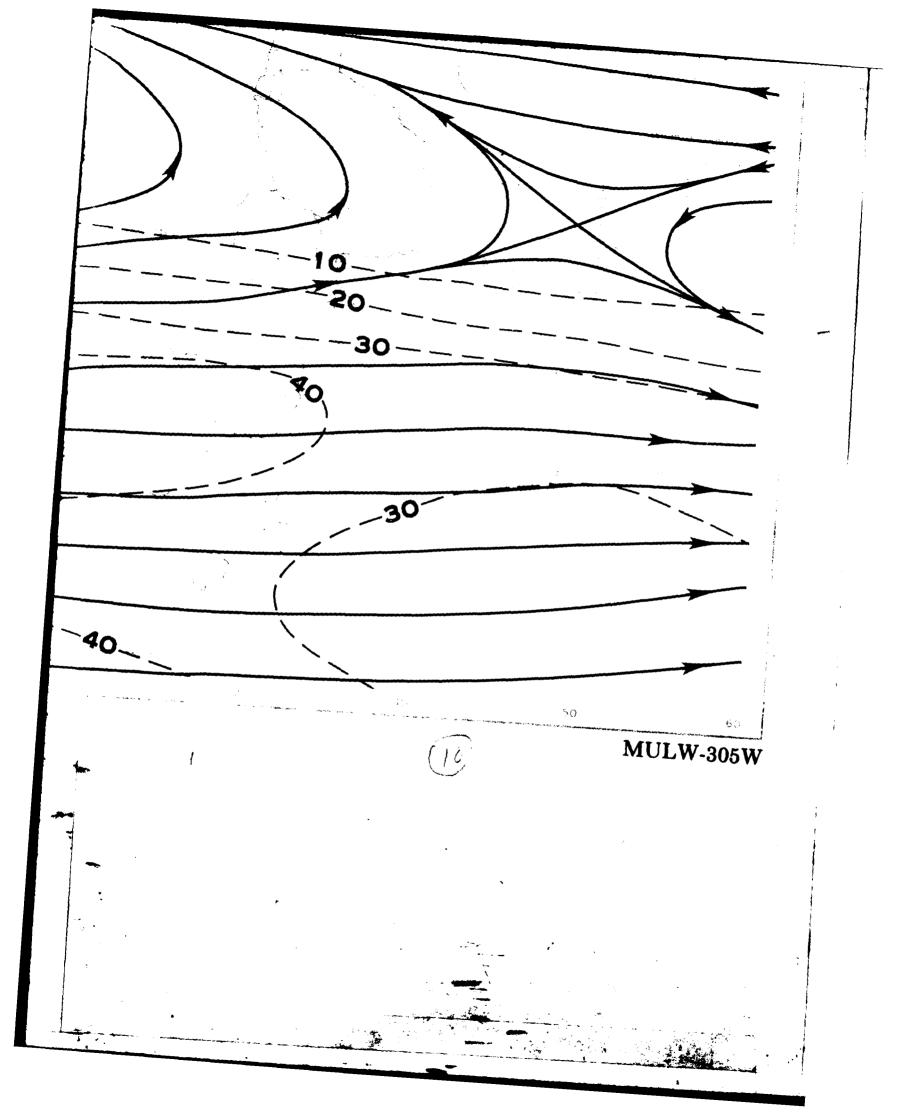
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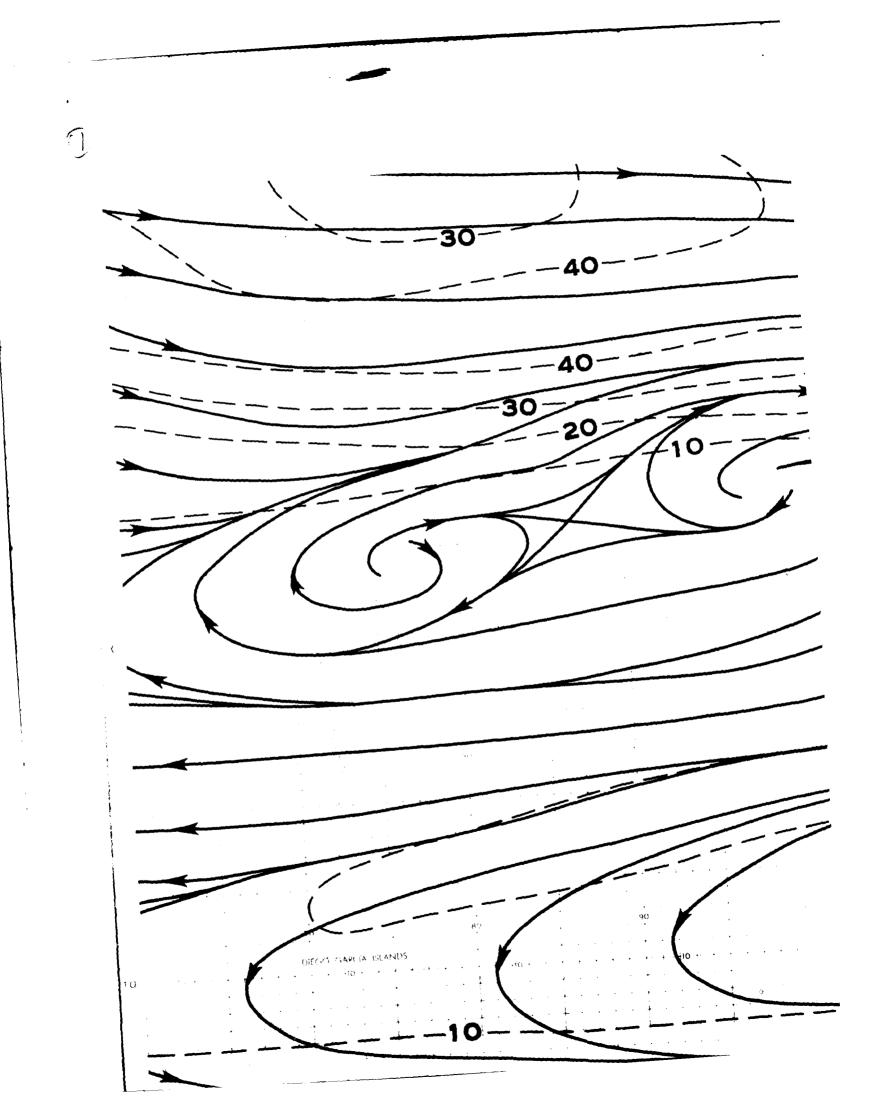


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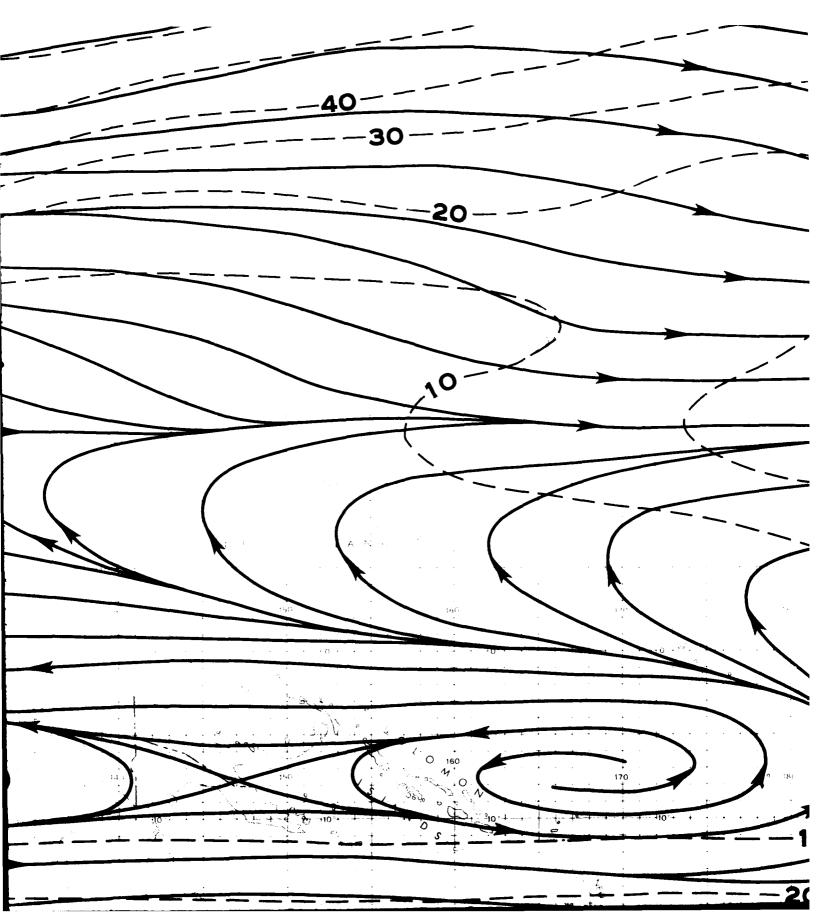
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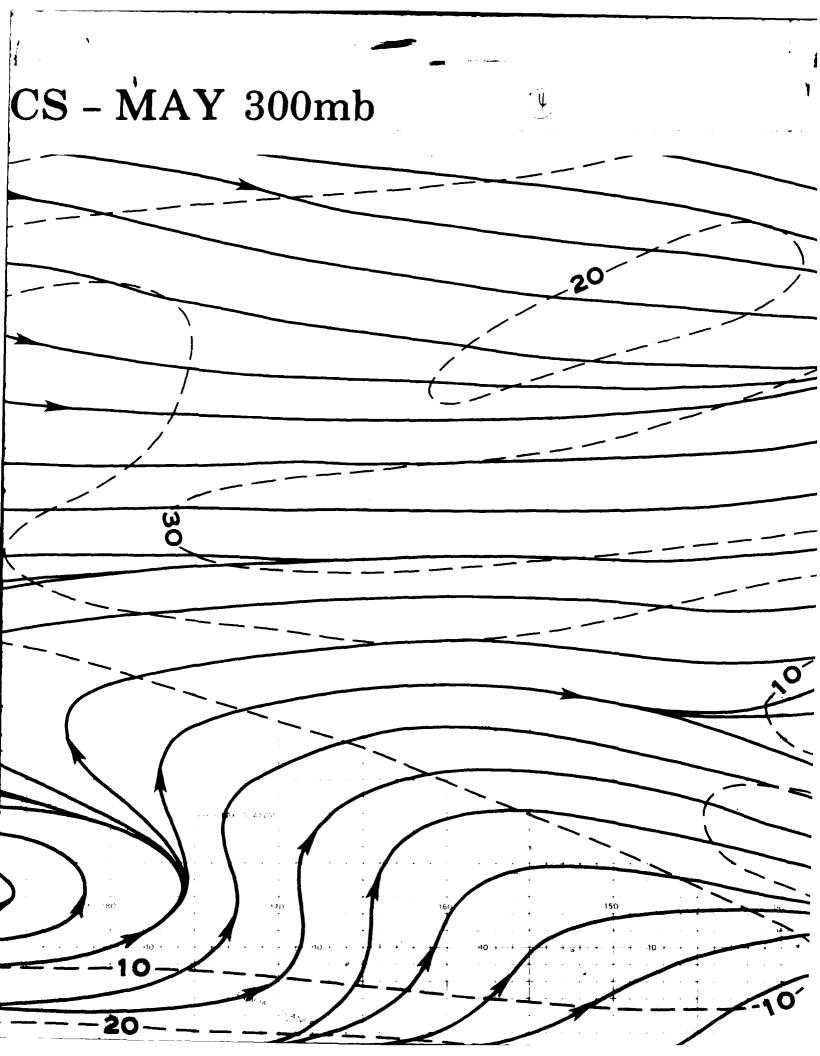
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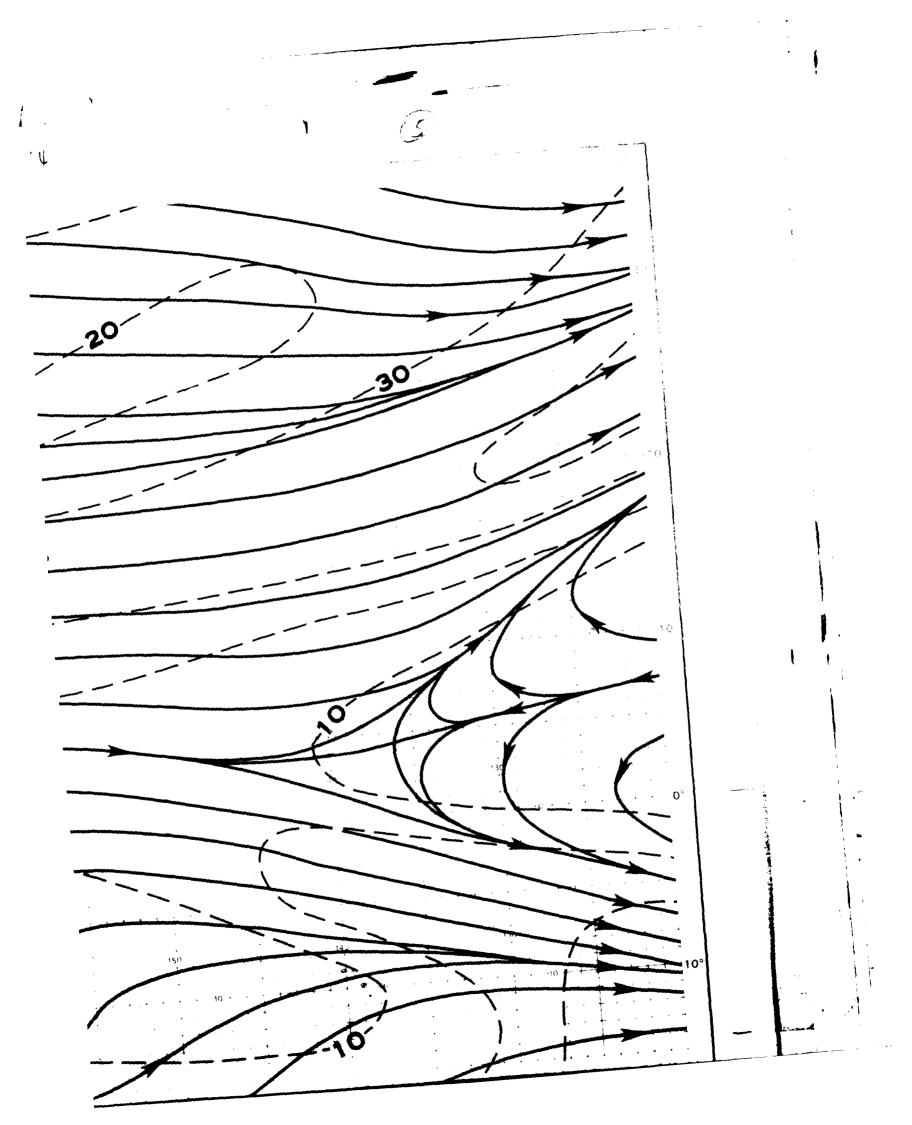


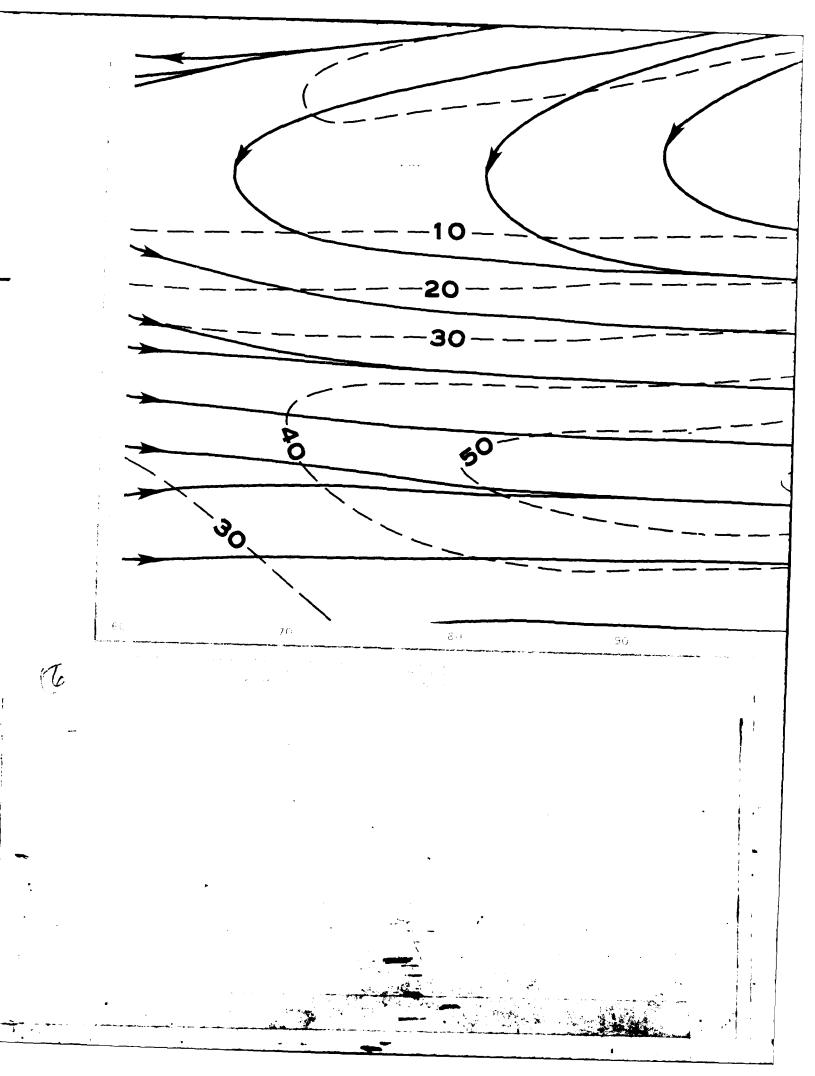
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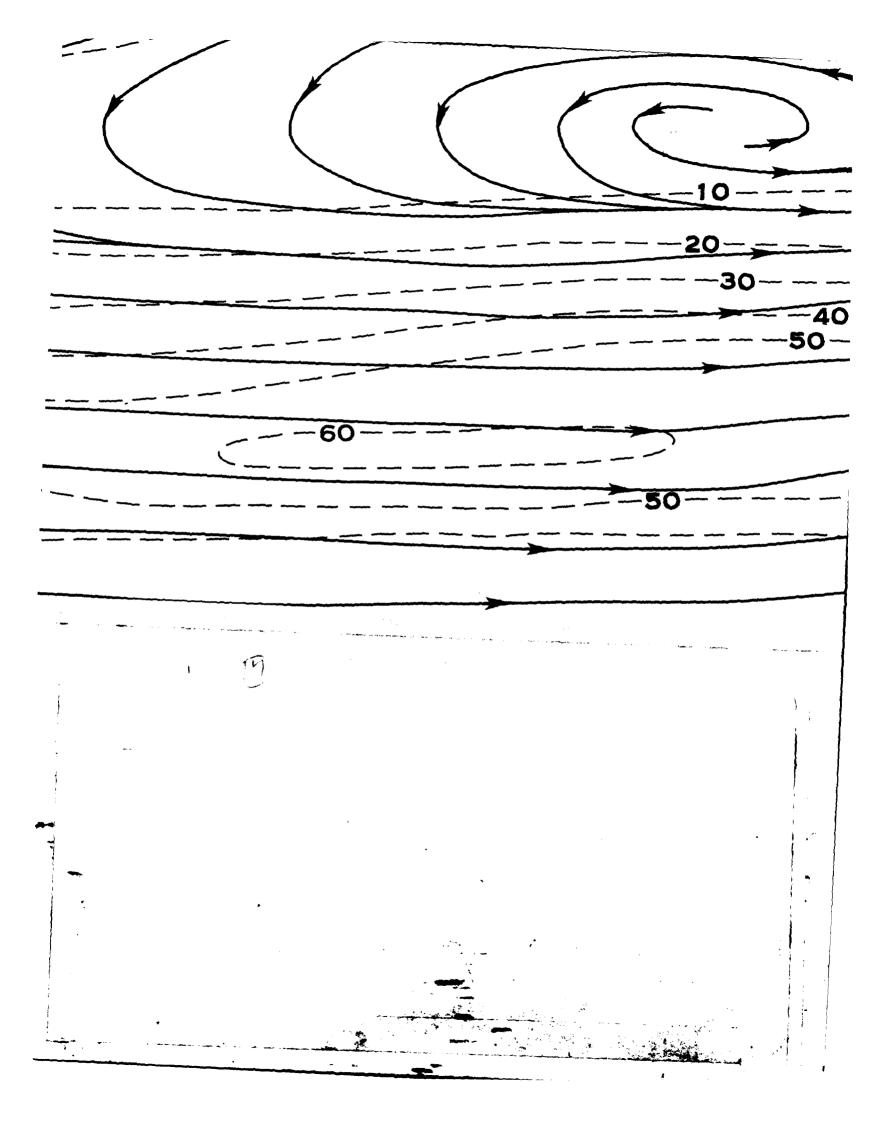
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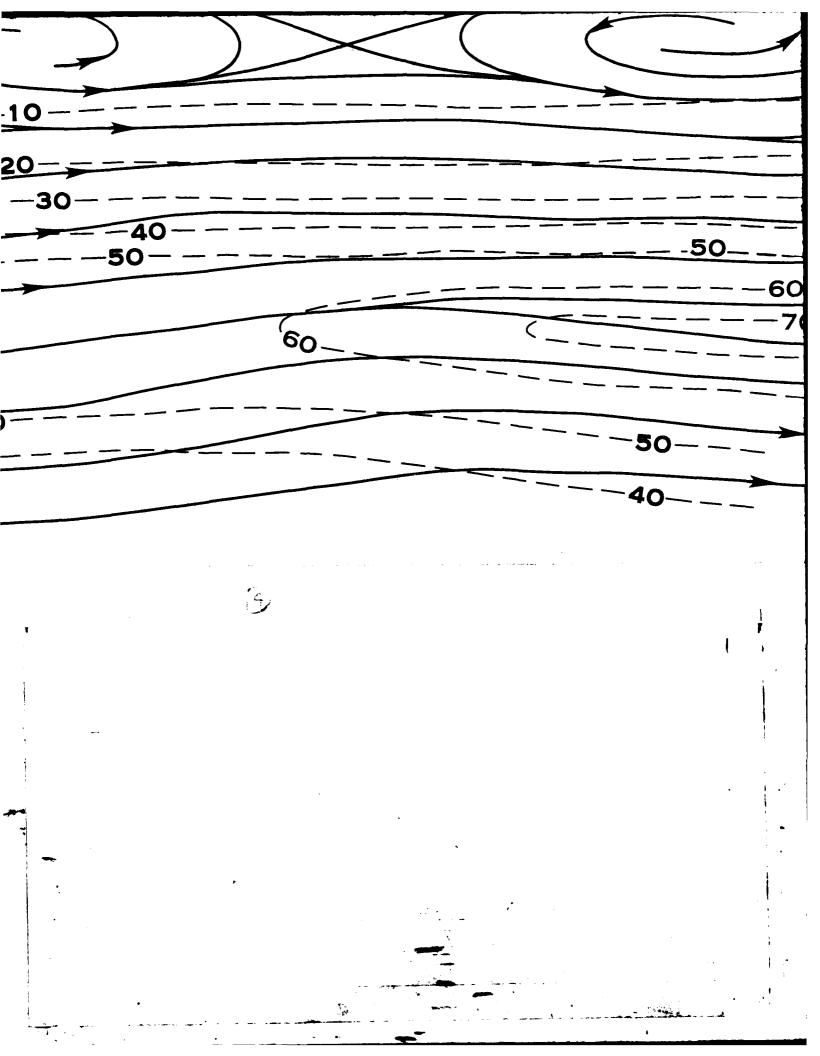


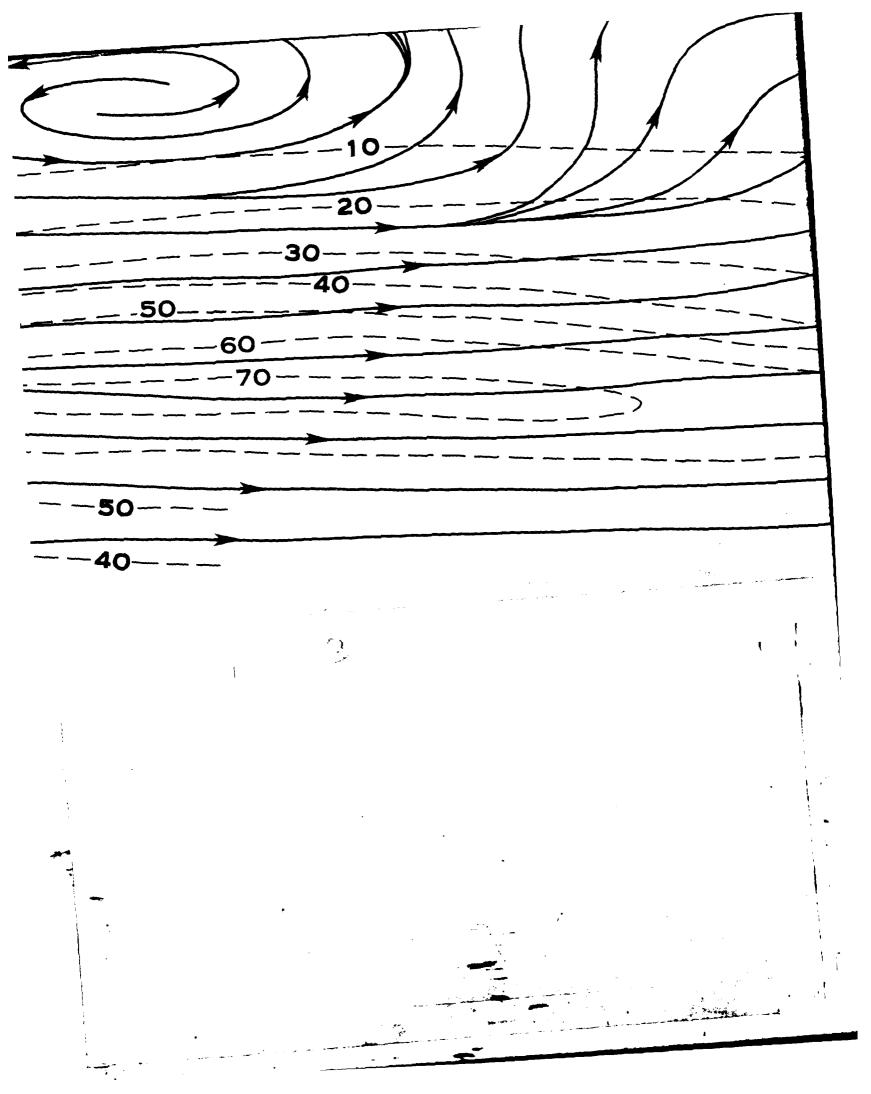


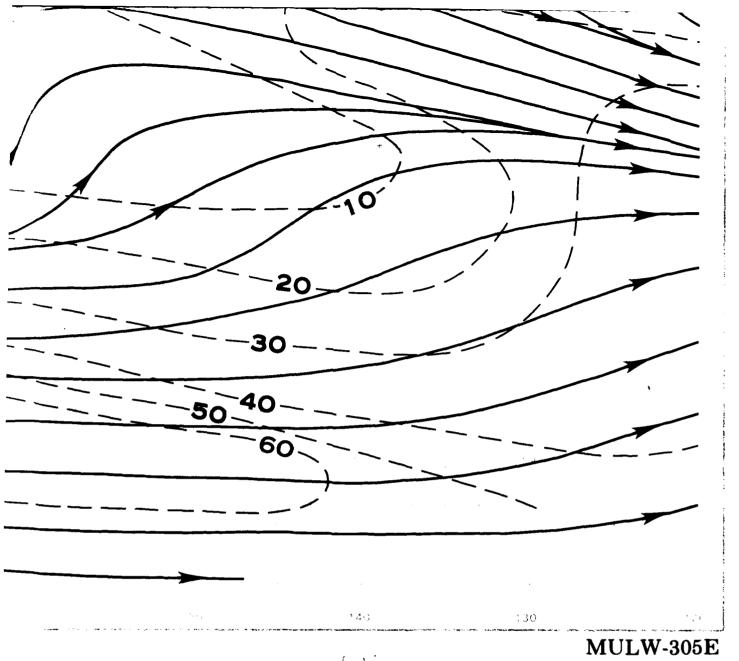


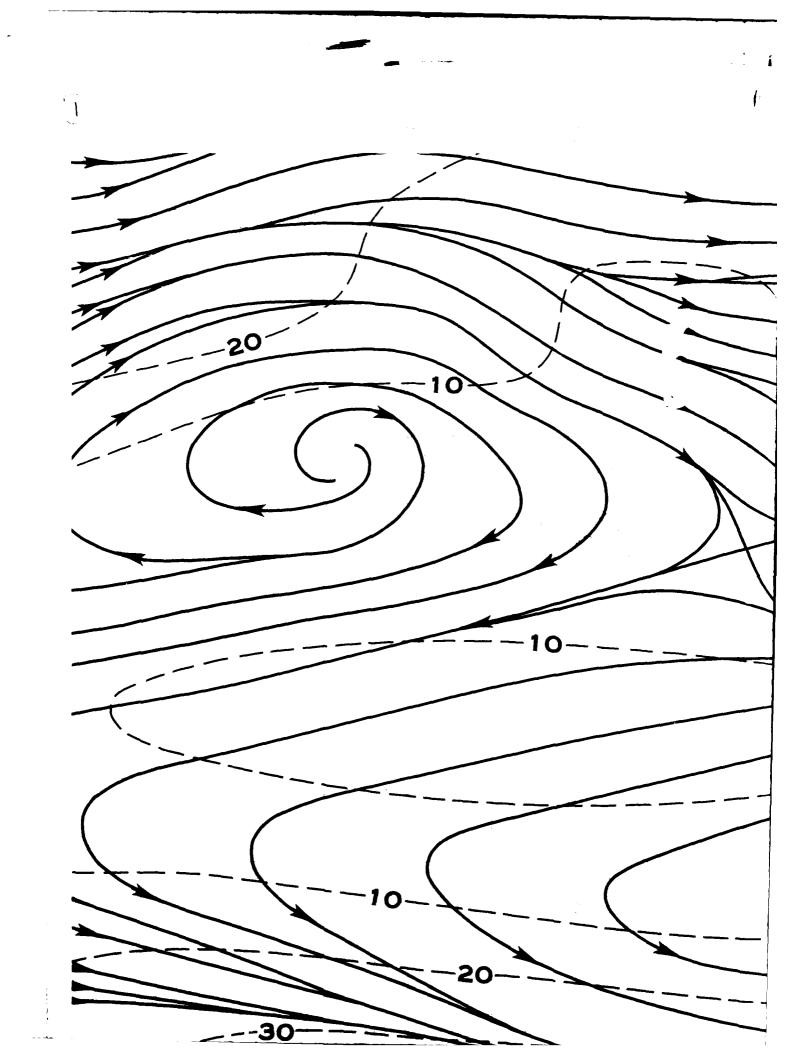






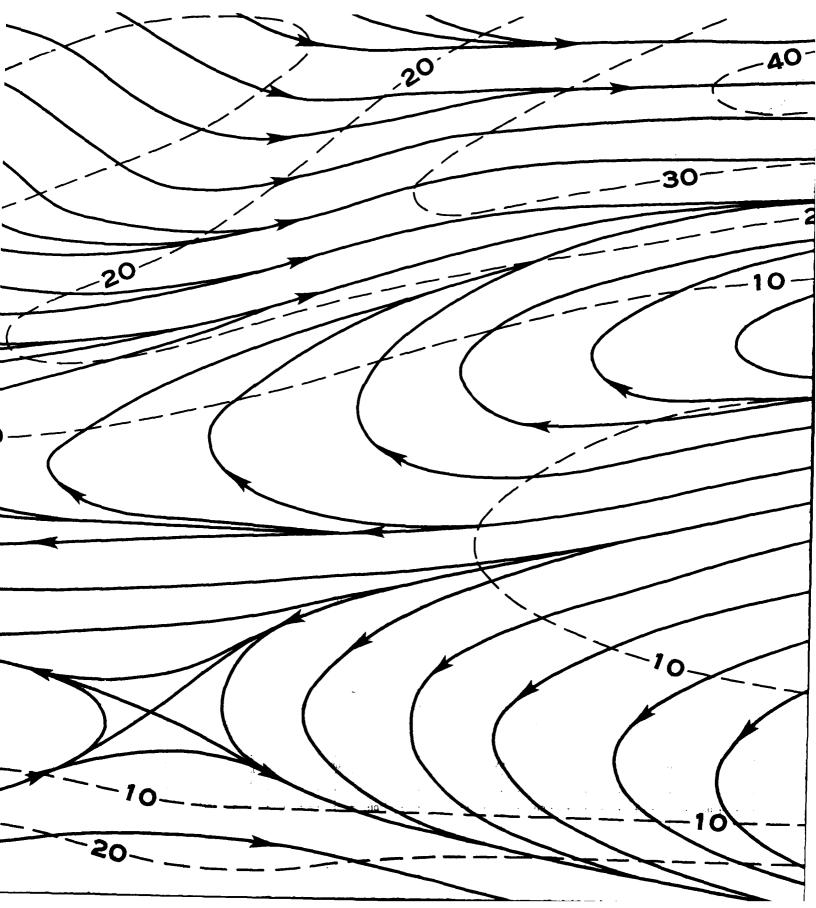




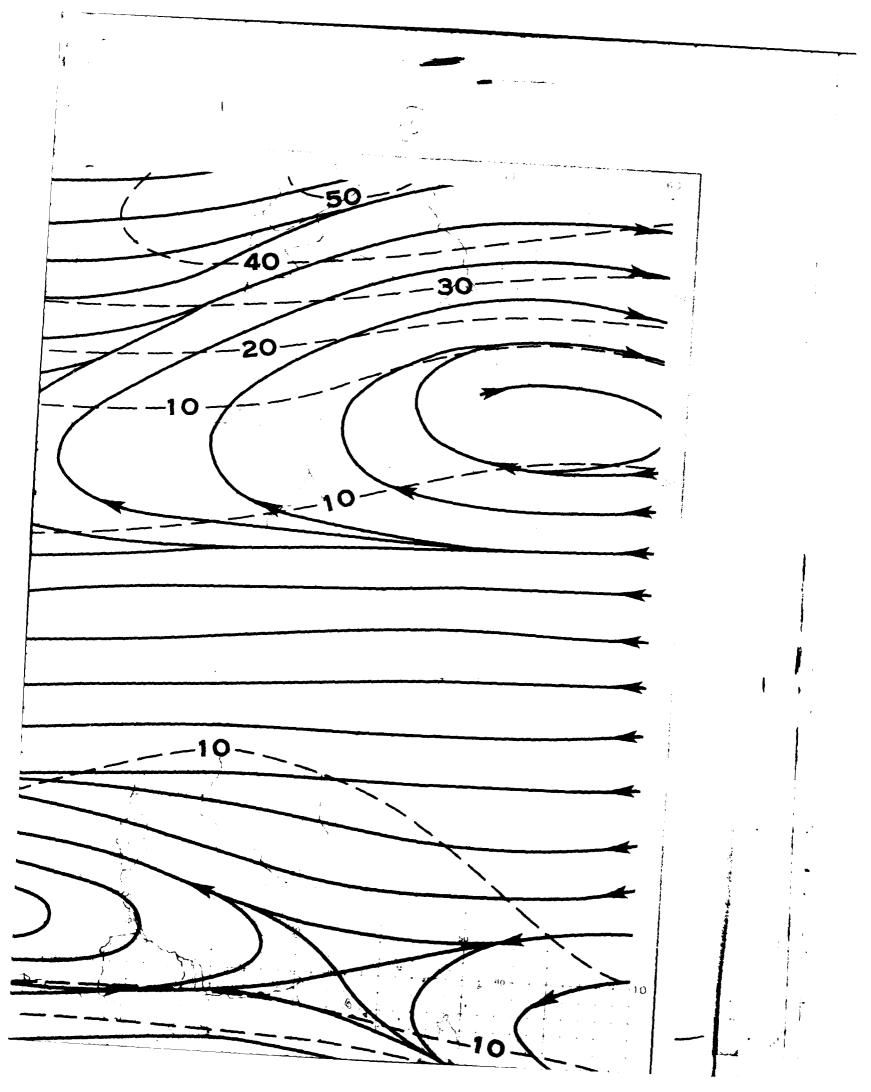


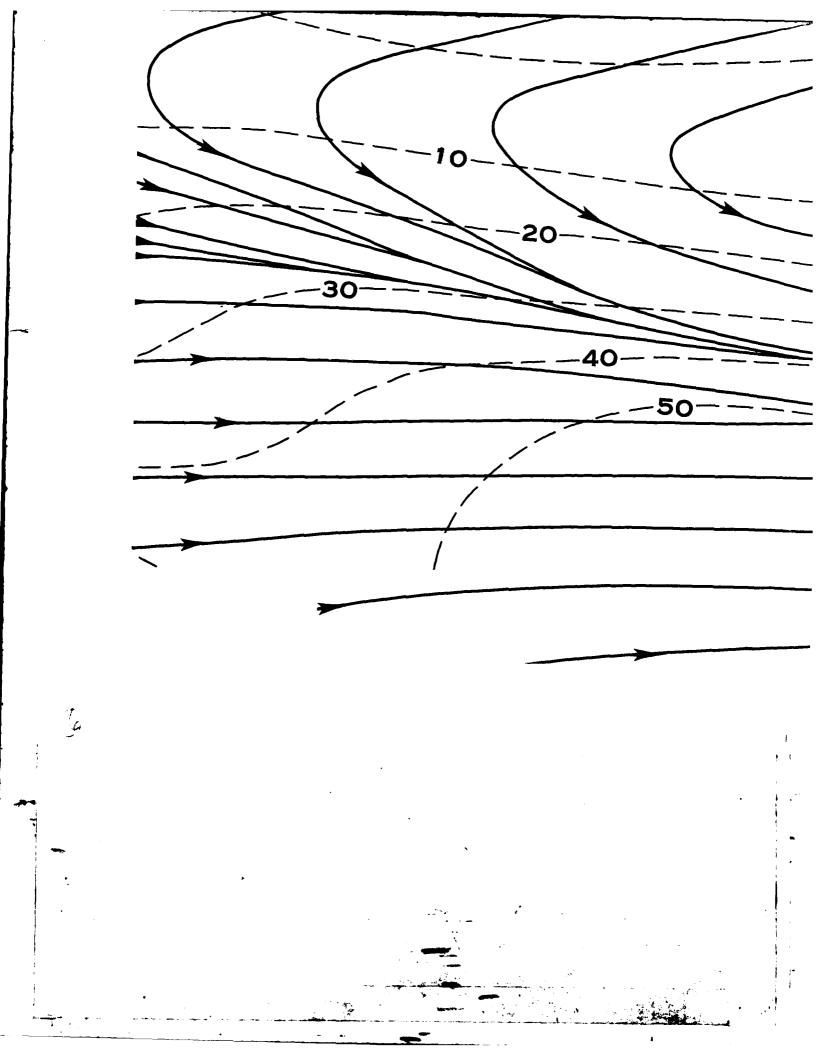
## MEAN UPPER LEVEL WI

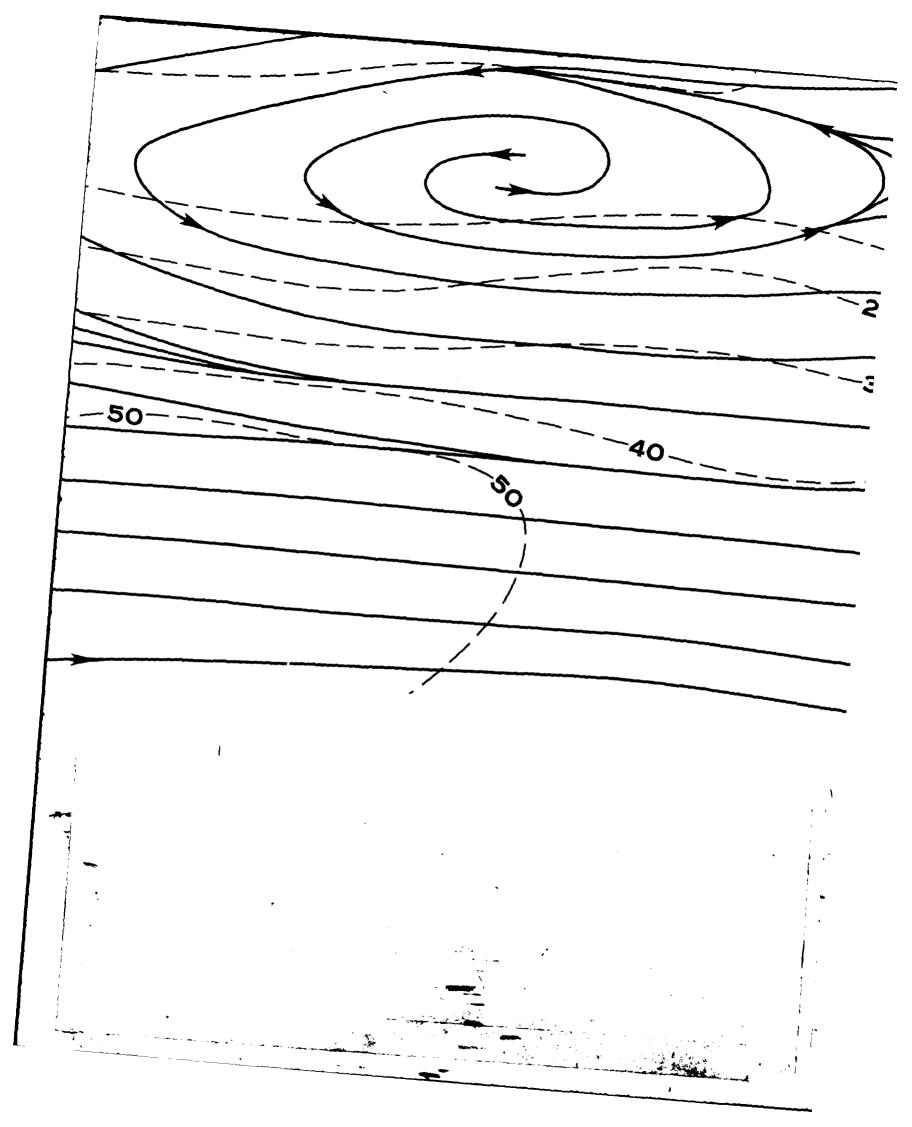
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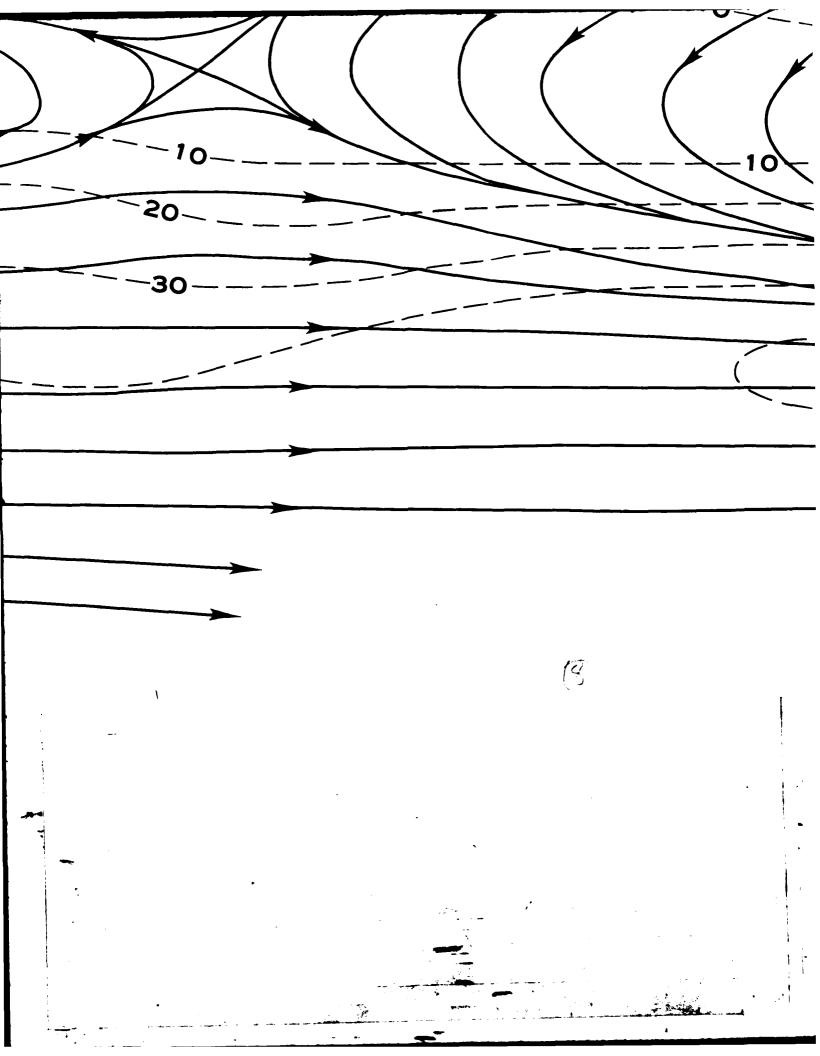


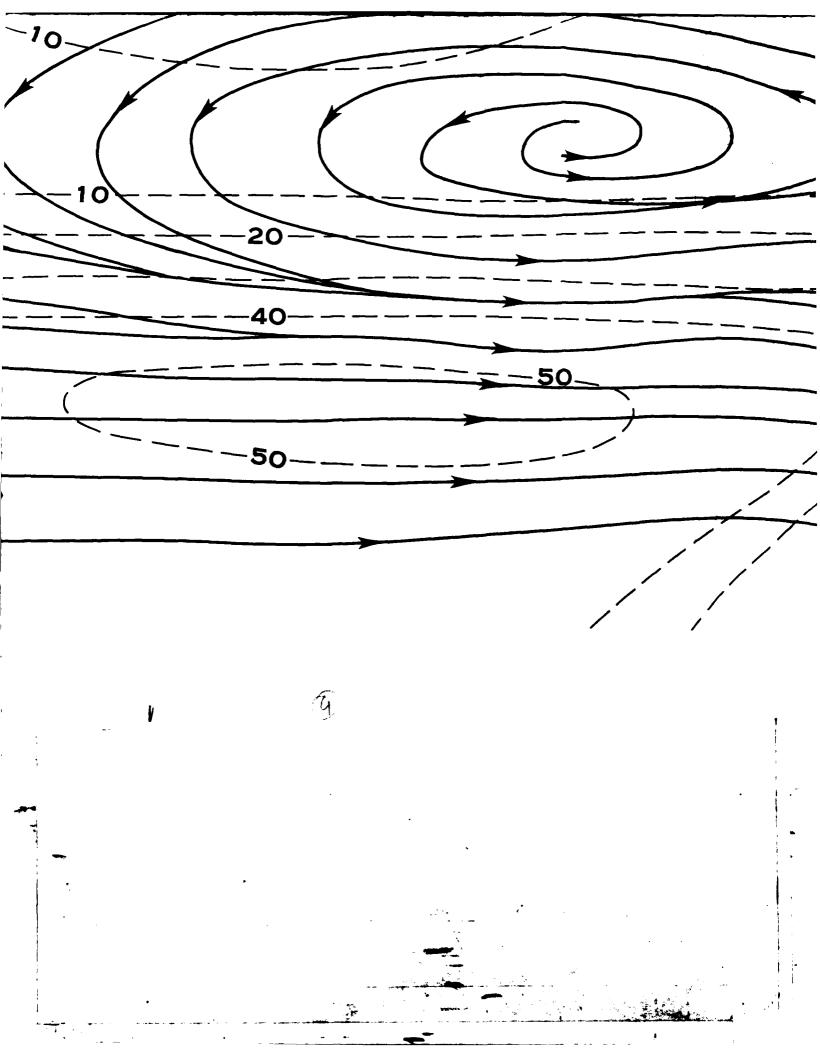
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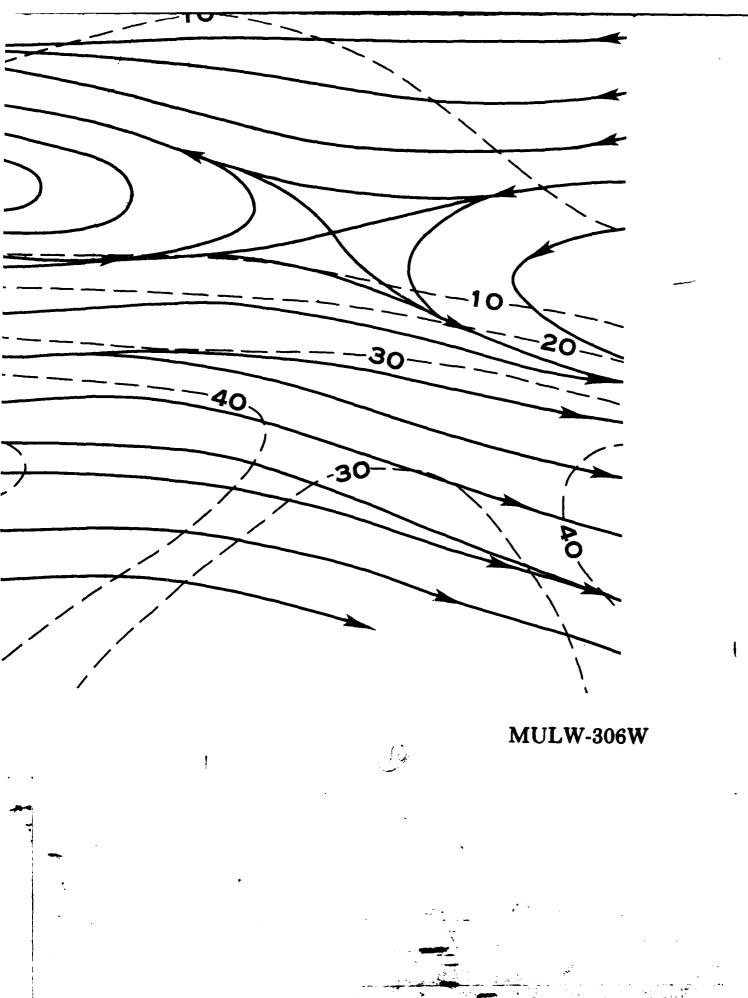


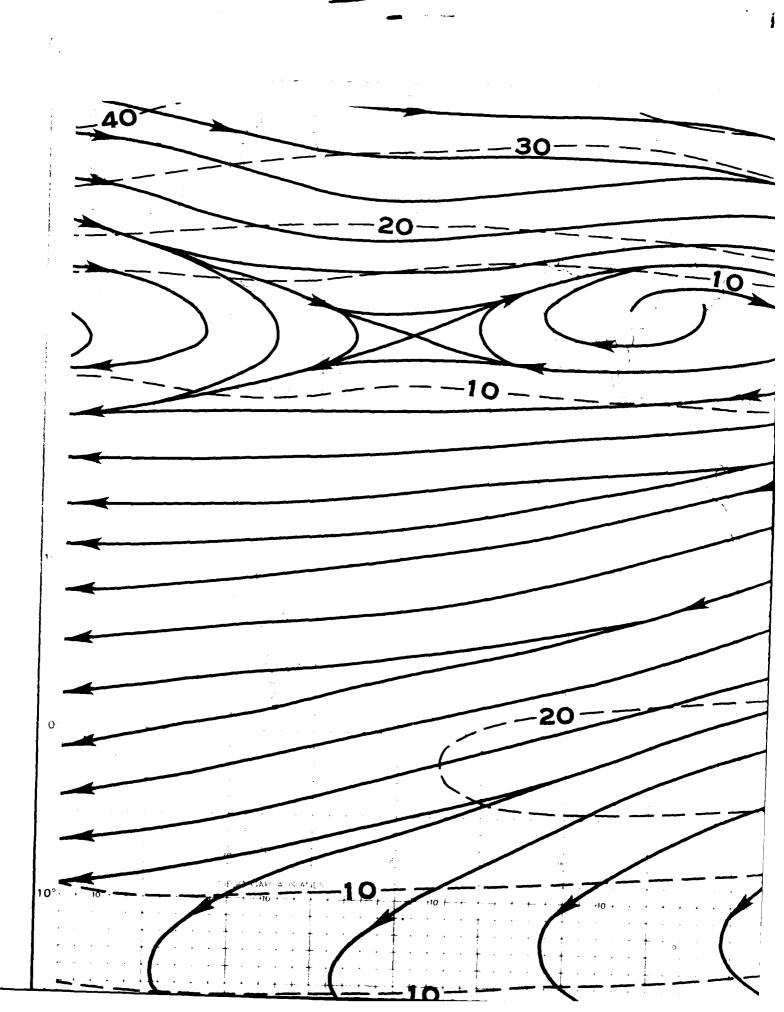






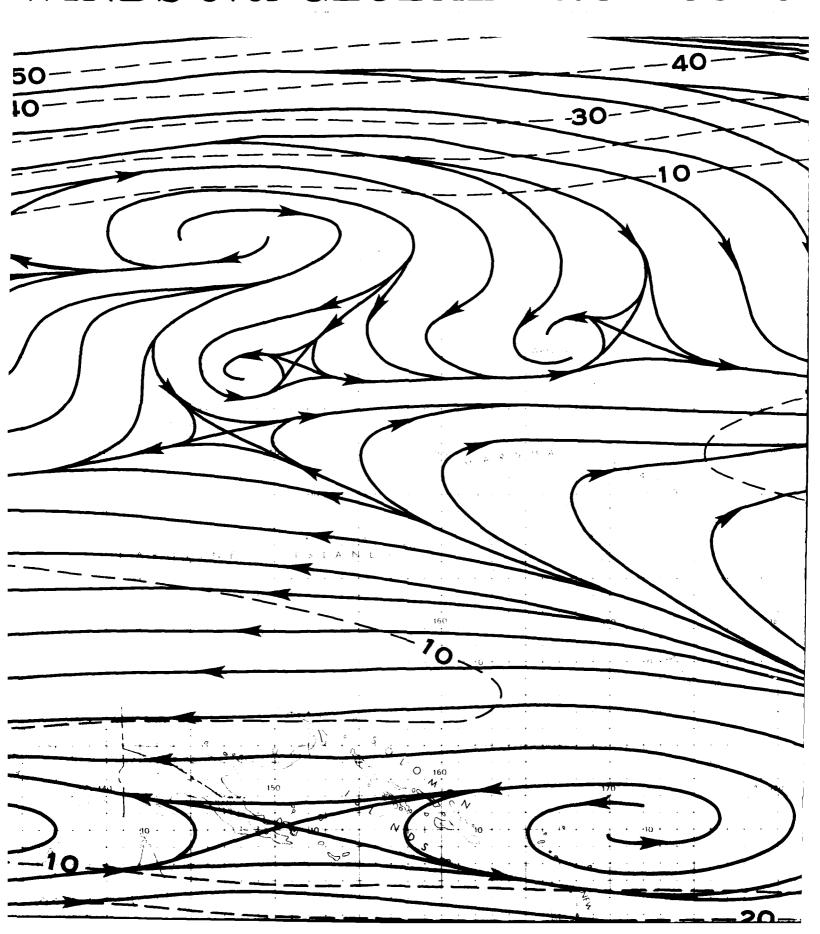




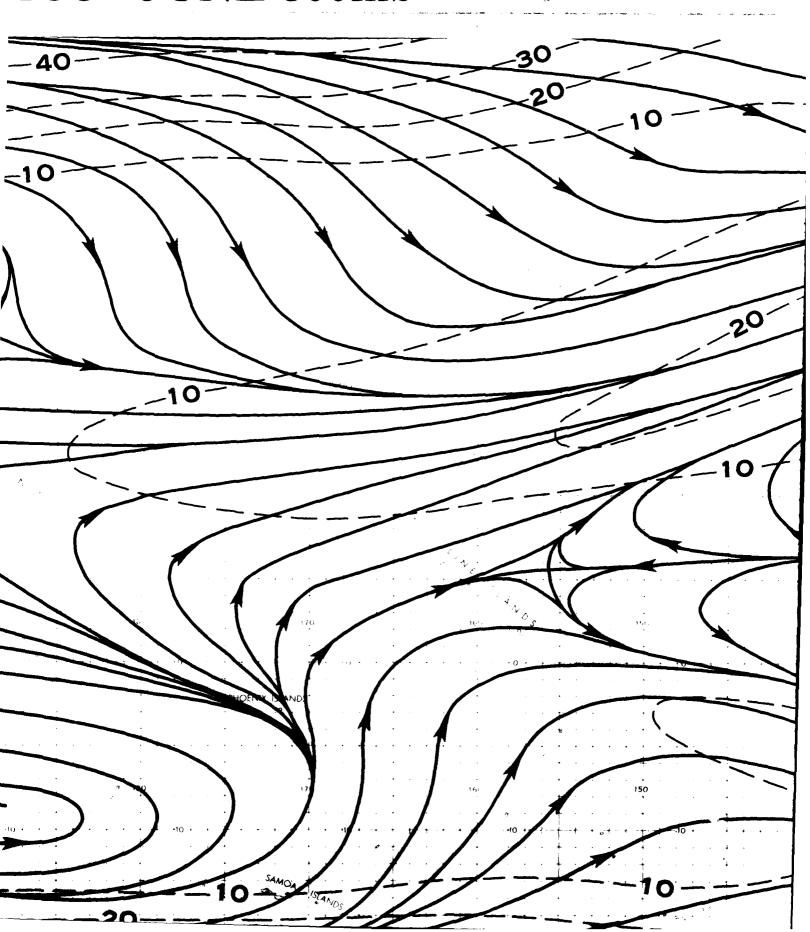


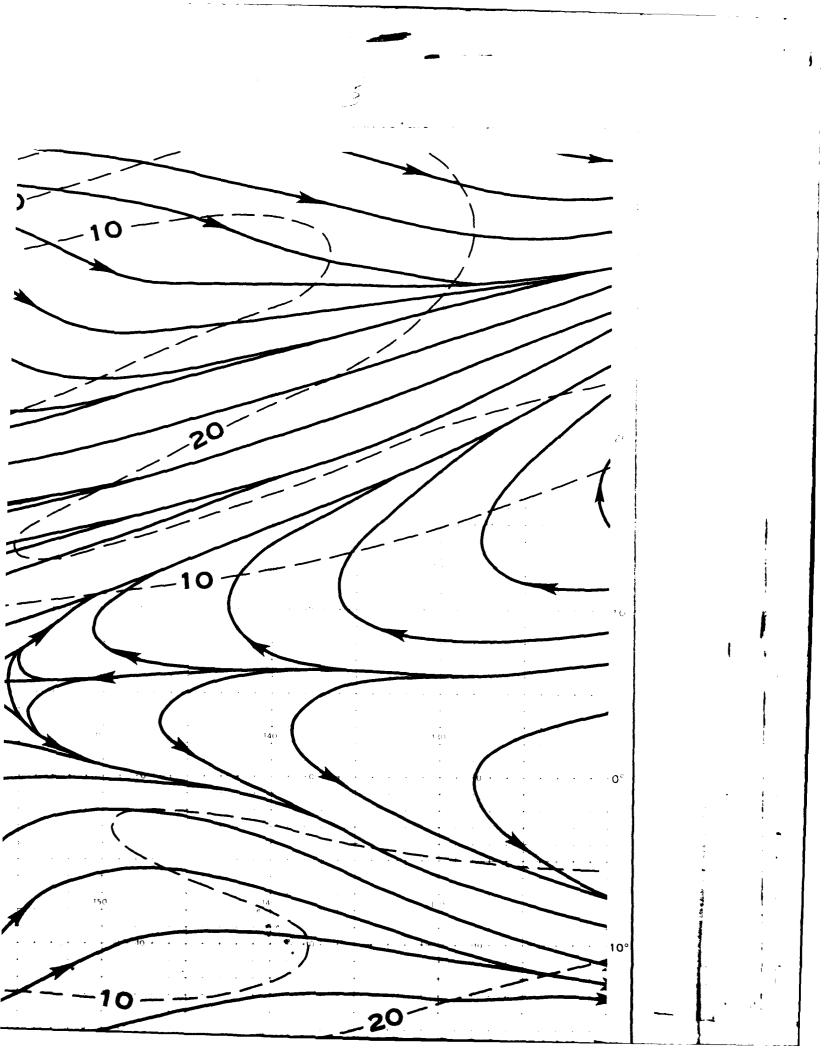
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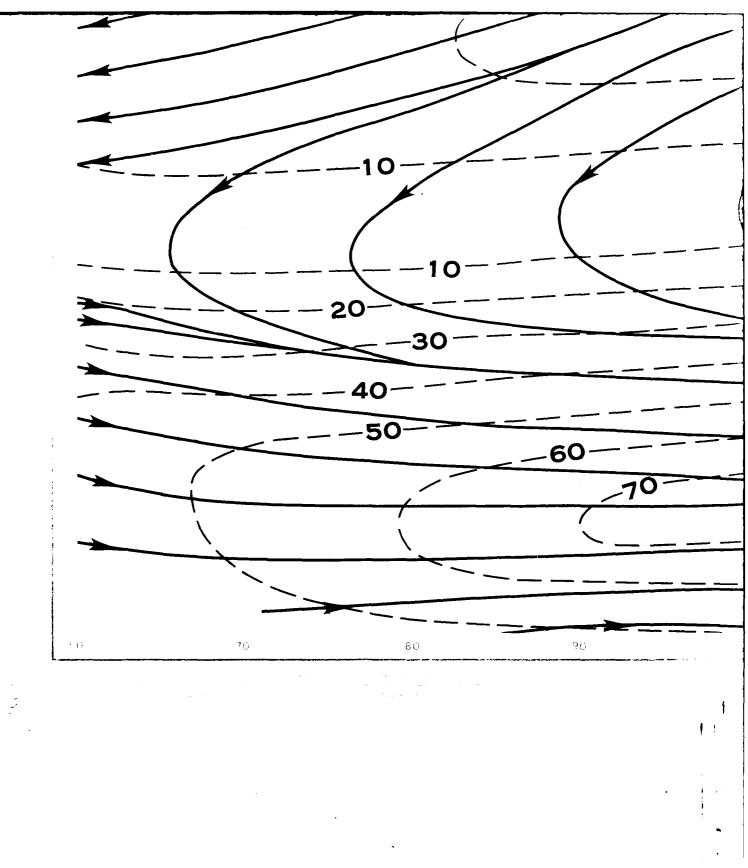
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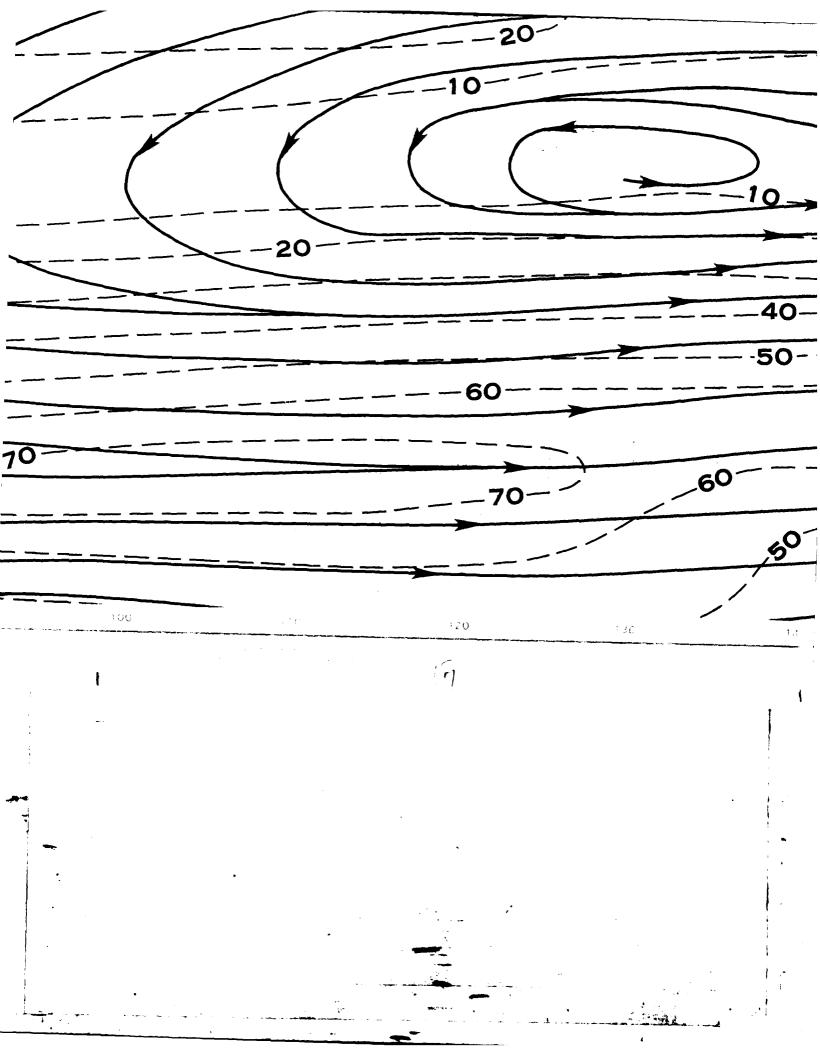


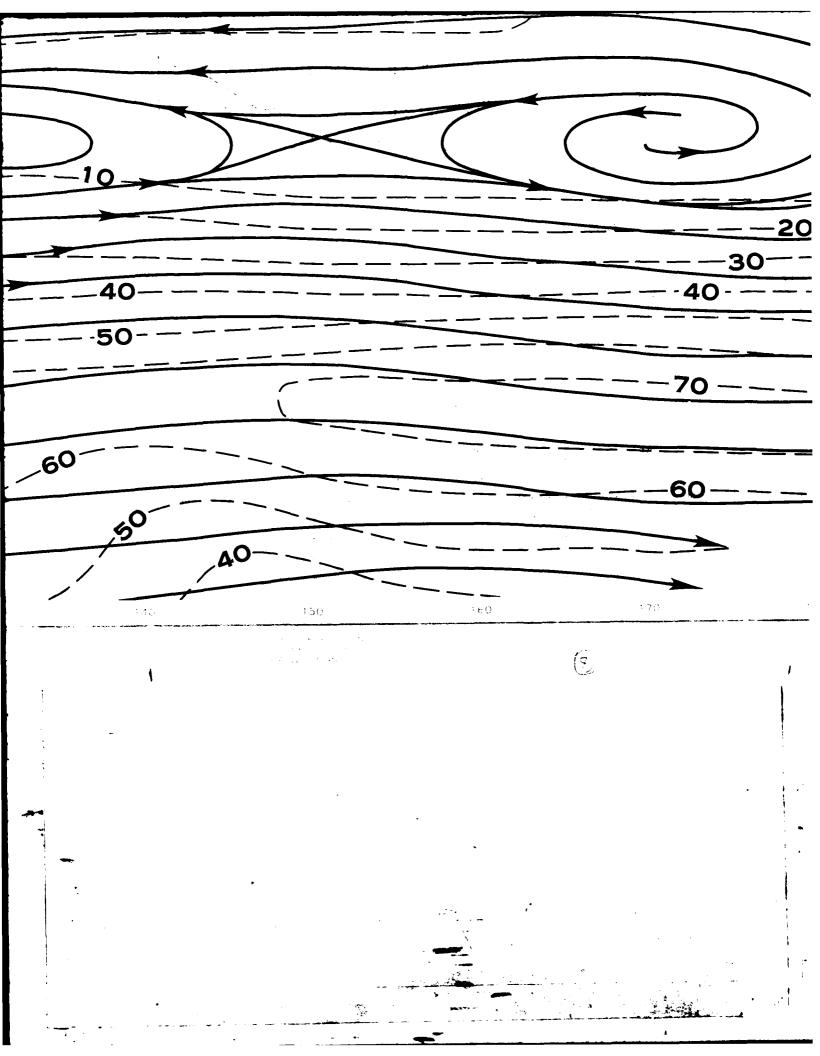
'ICS -JUNE 300mb

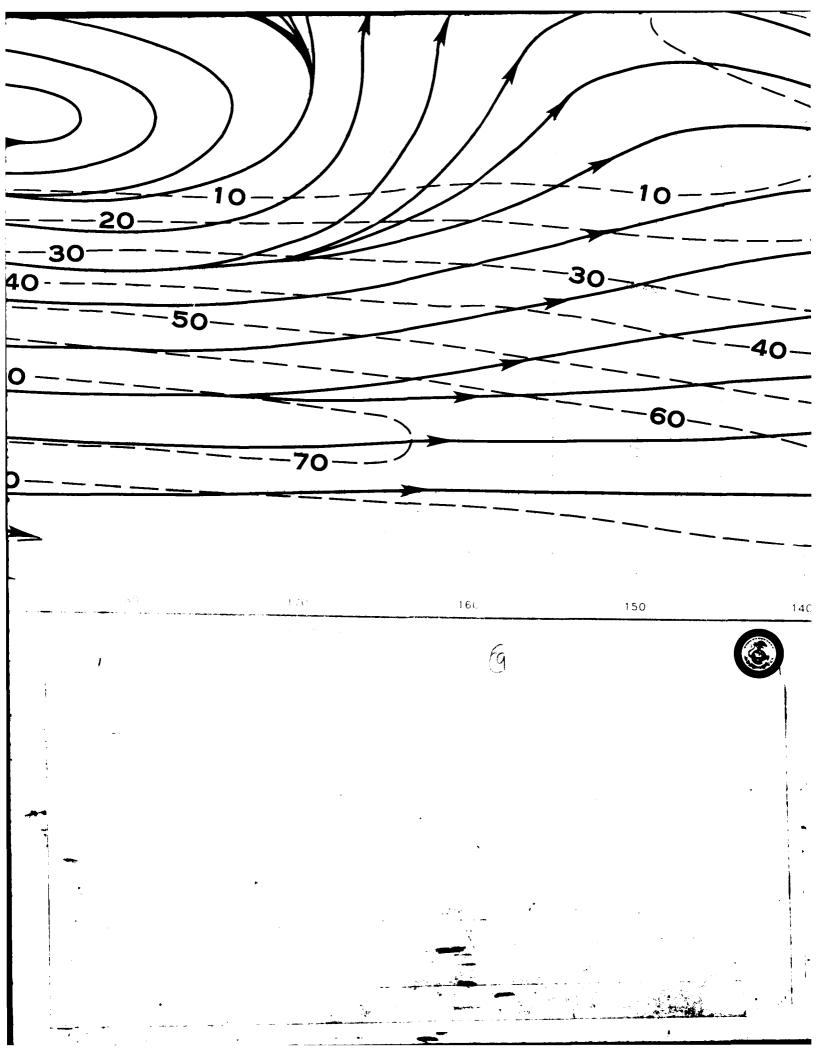


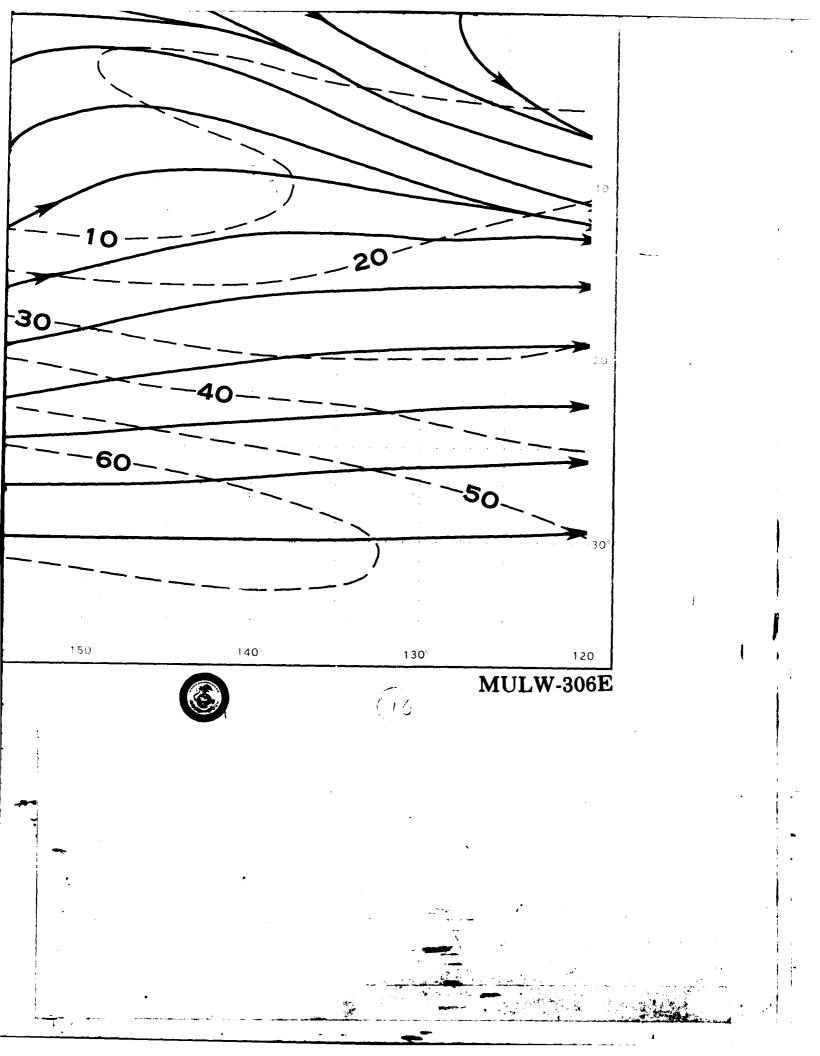


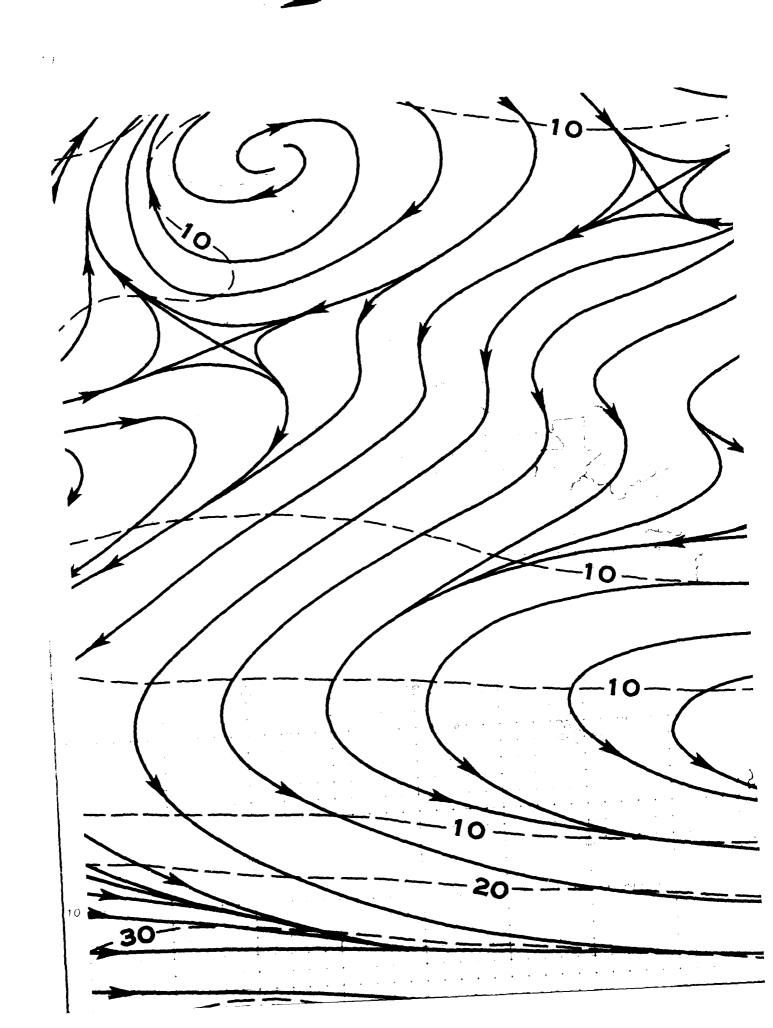






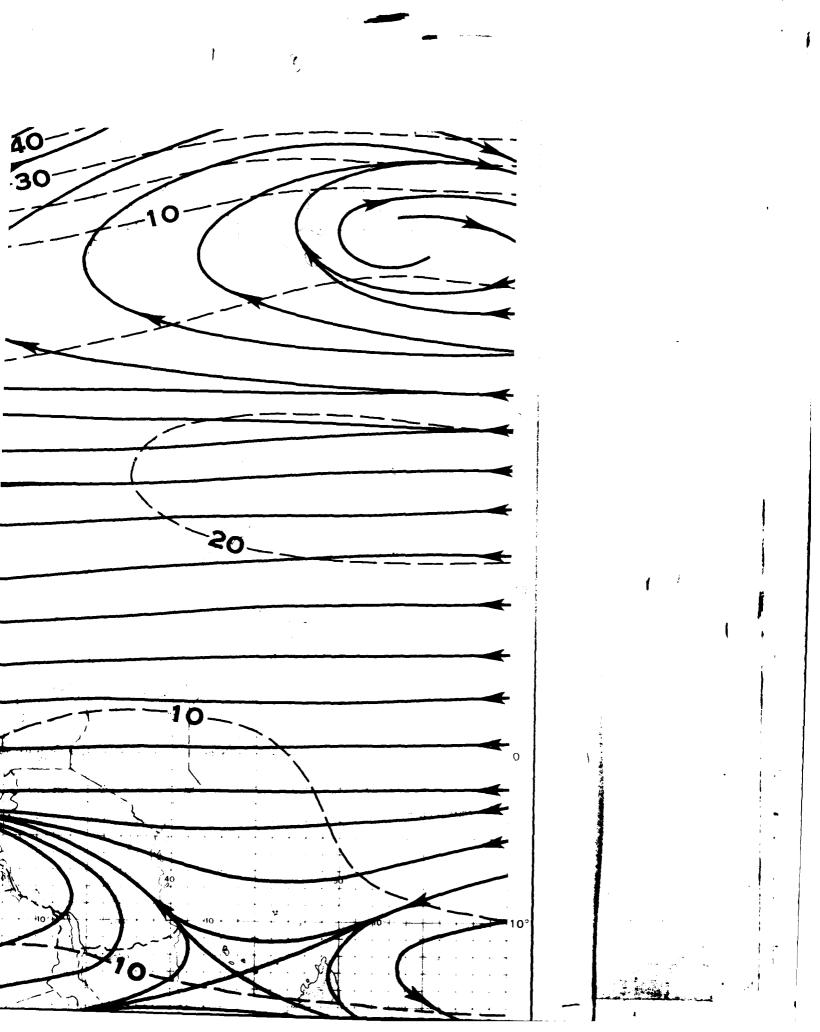


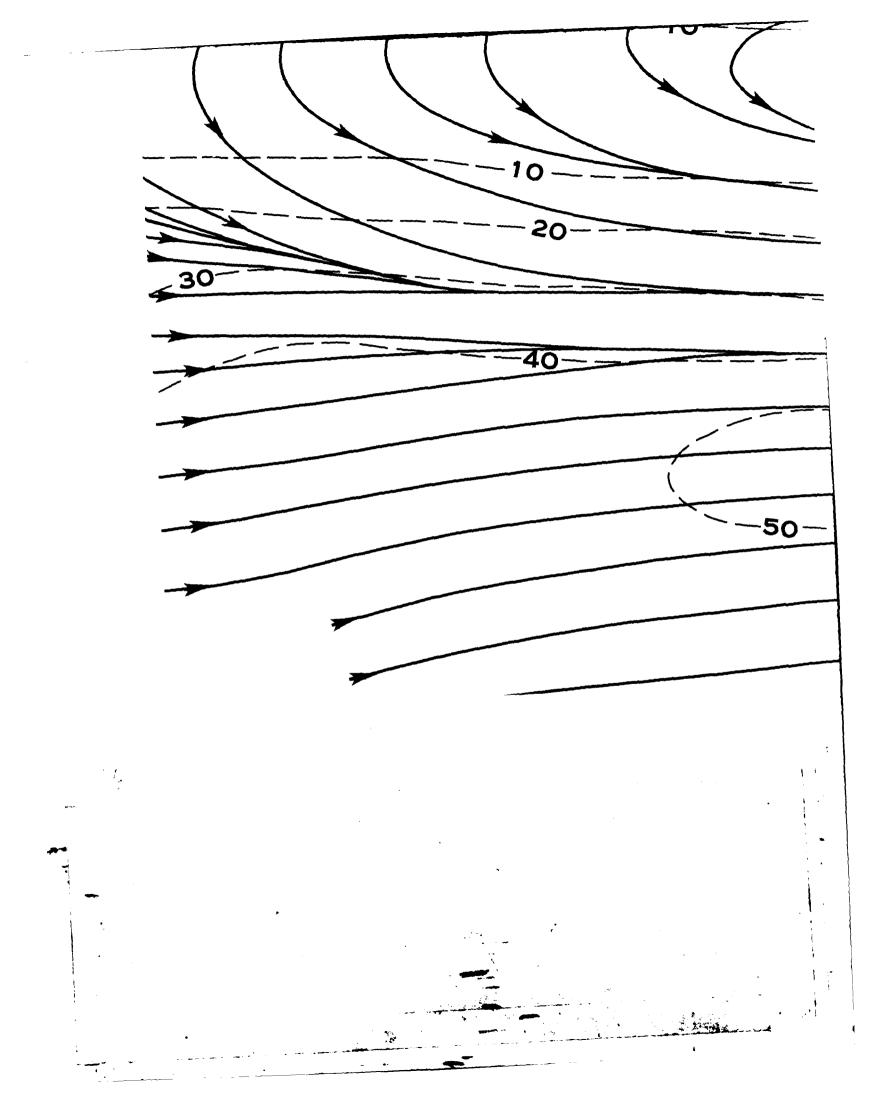


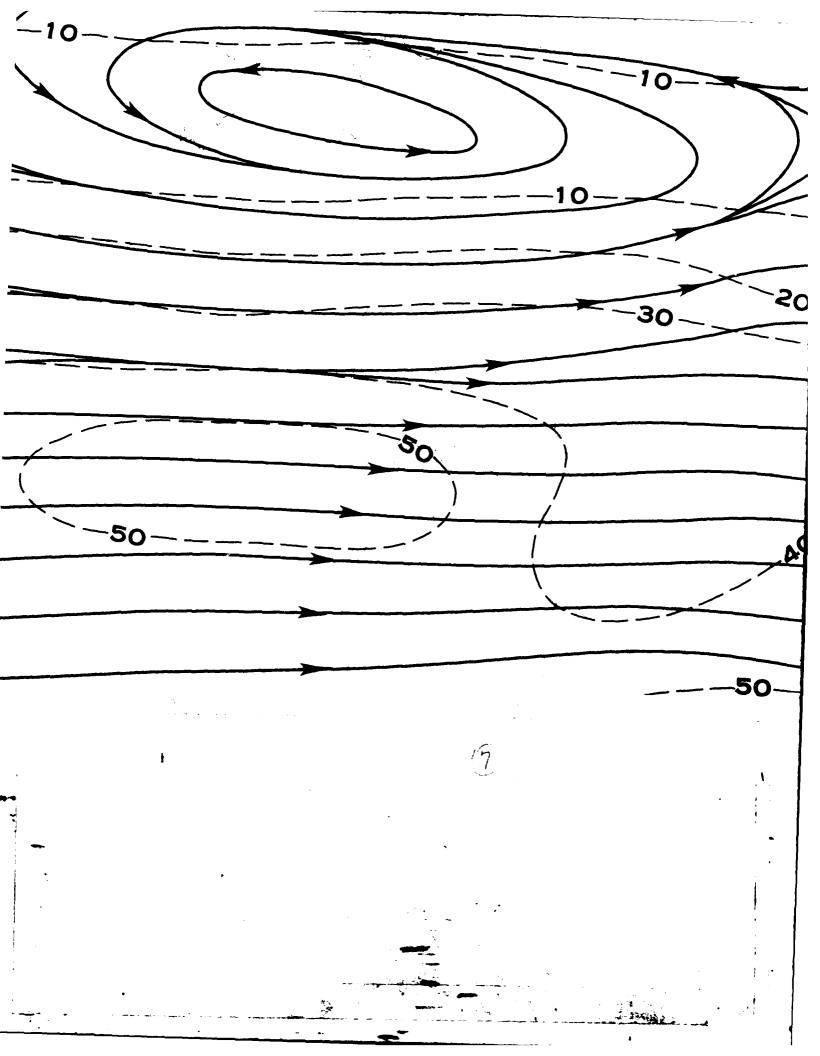


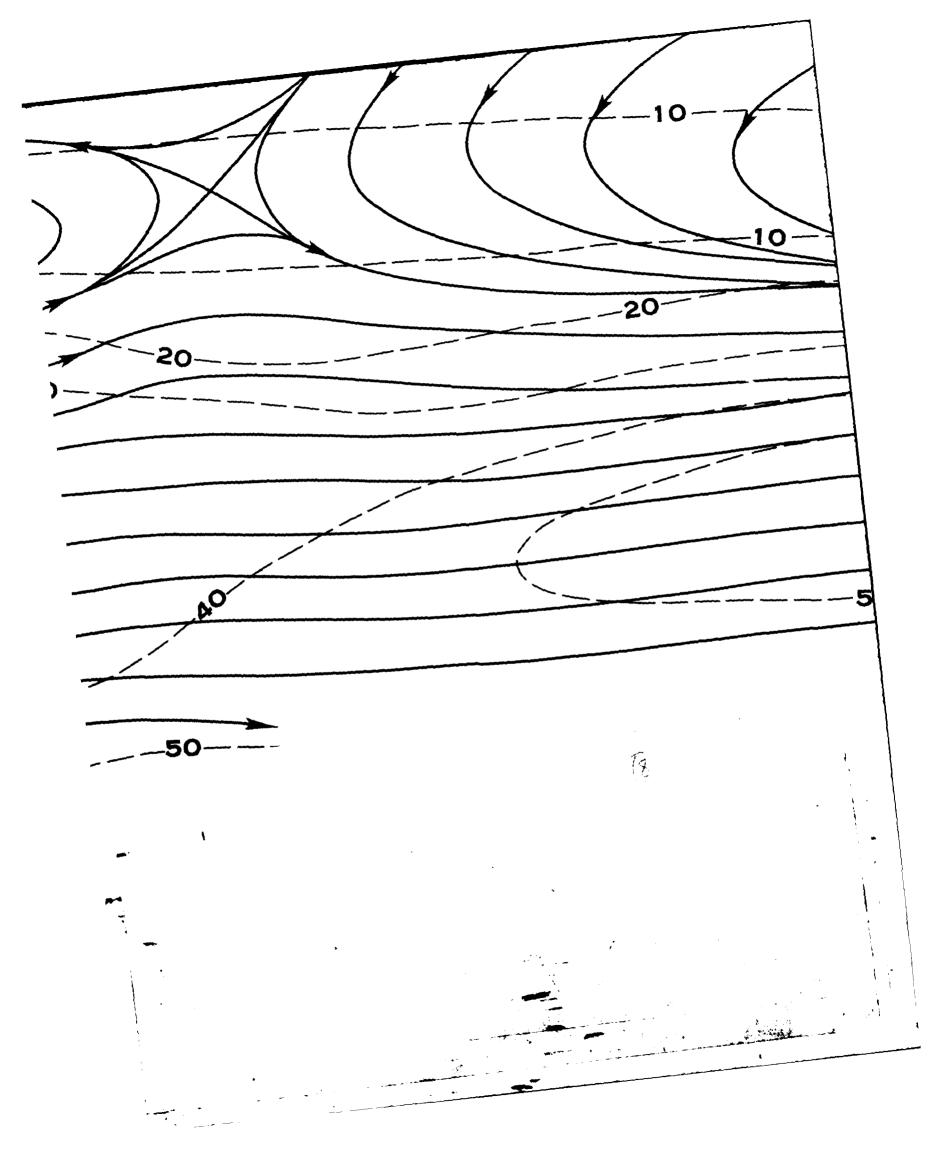
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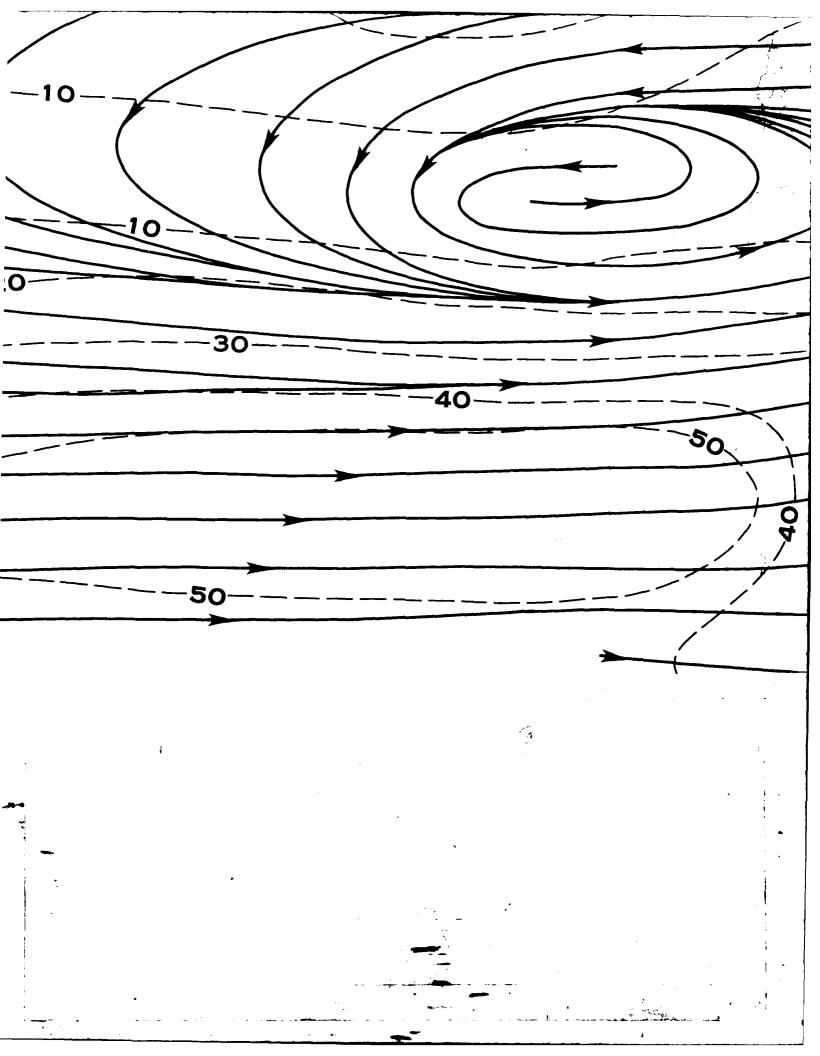
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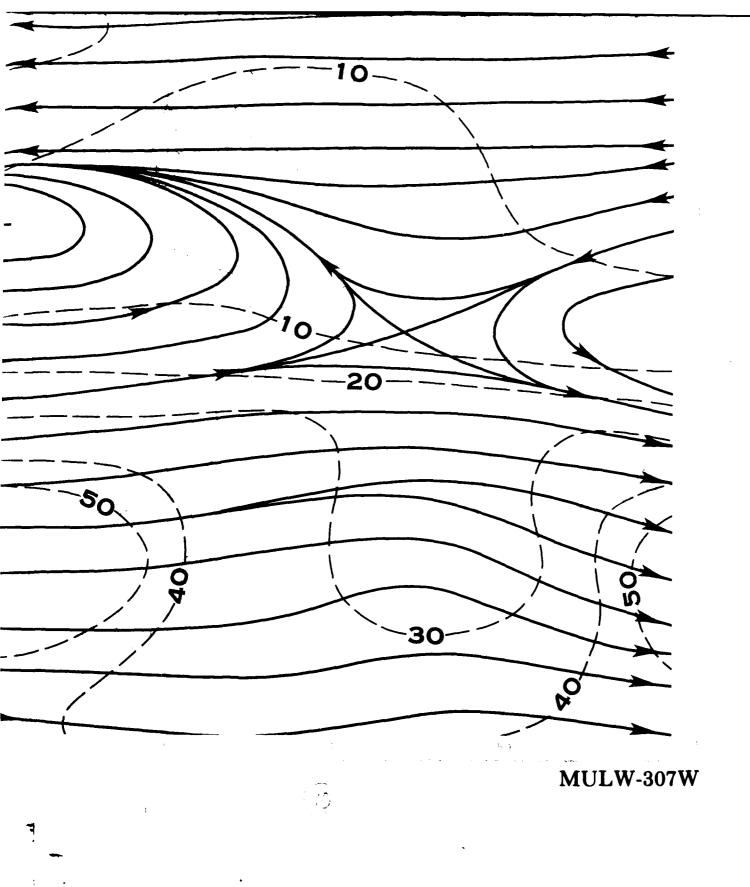


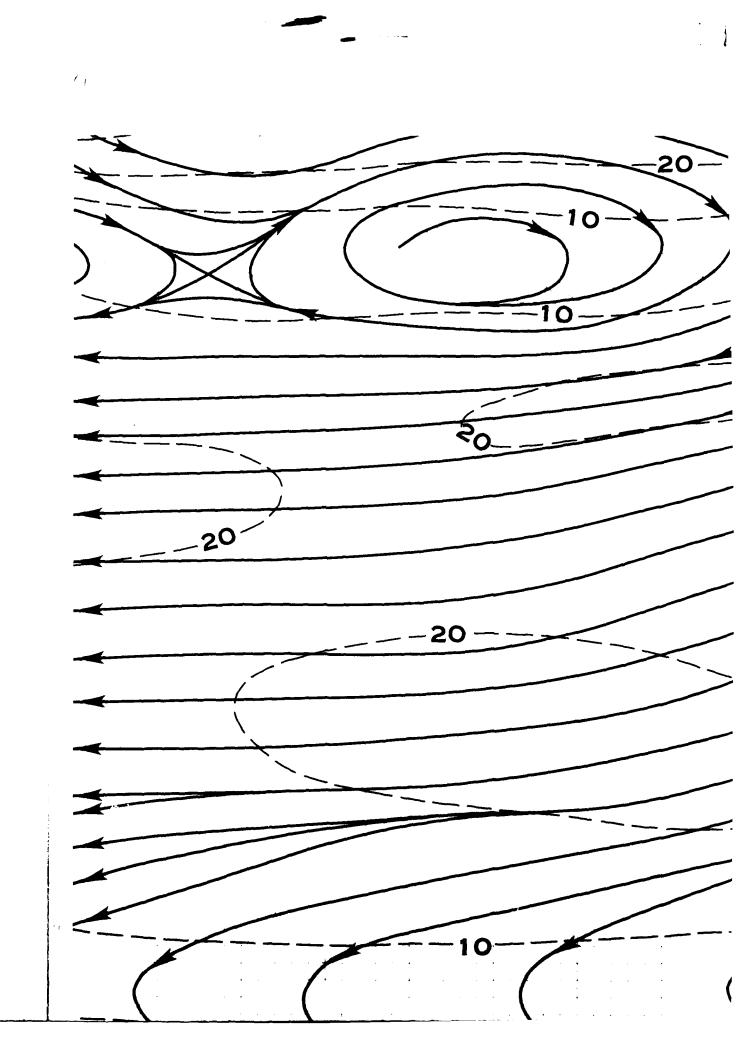






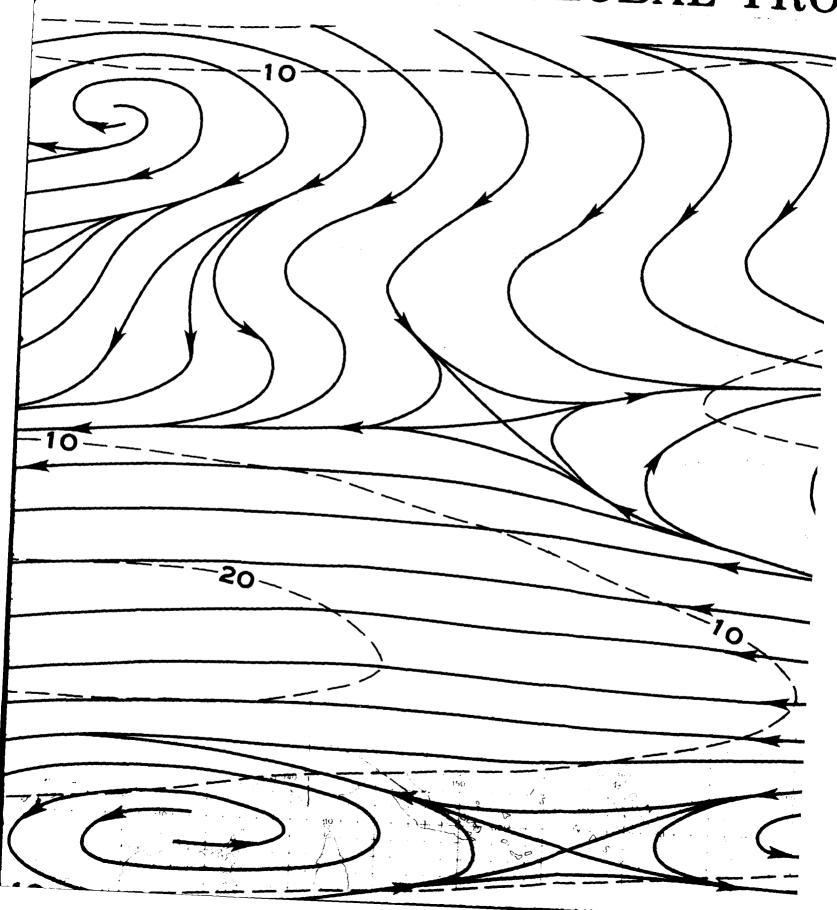




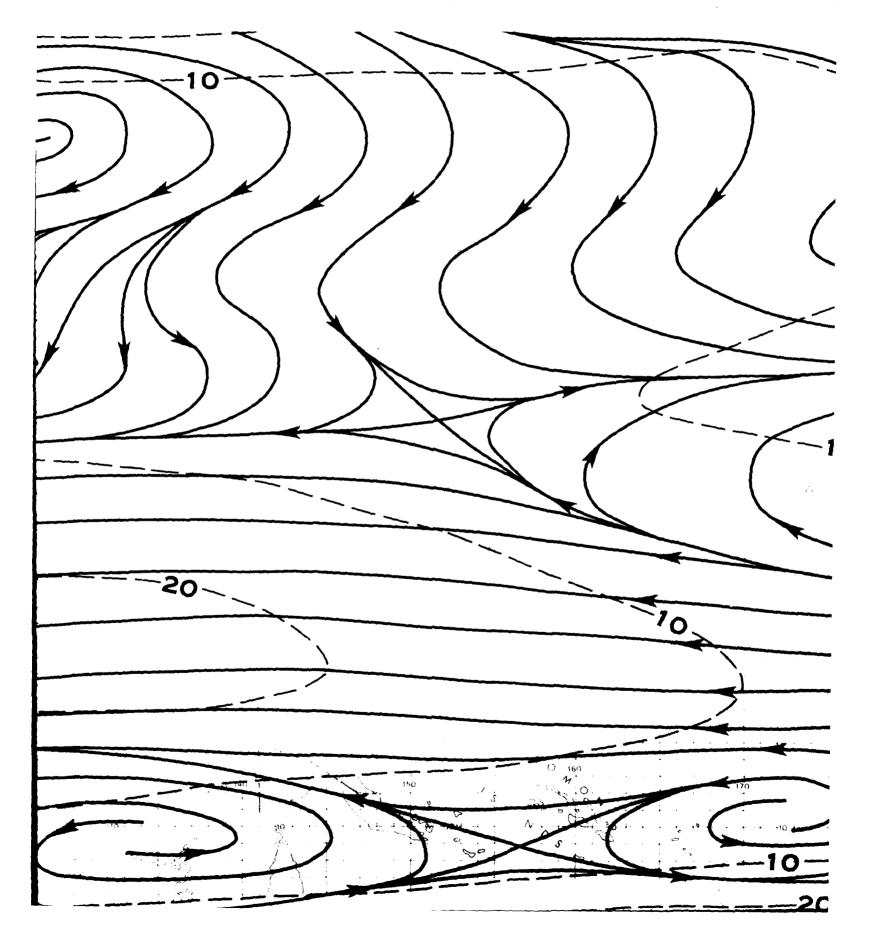


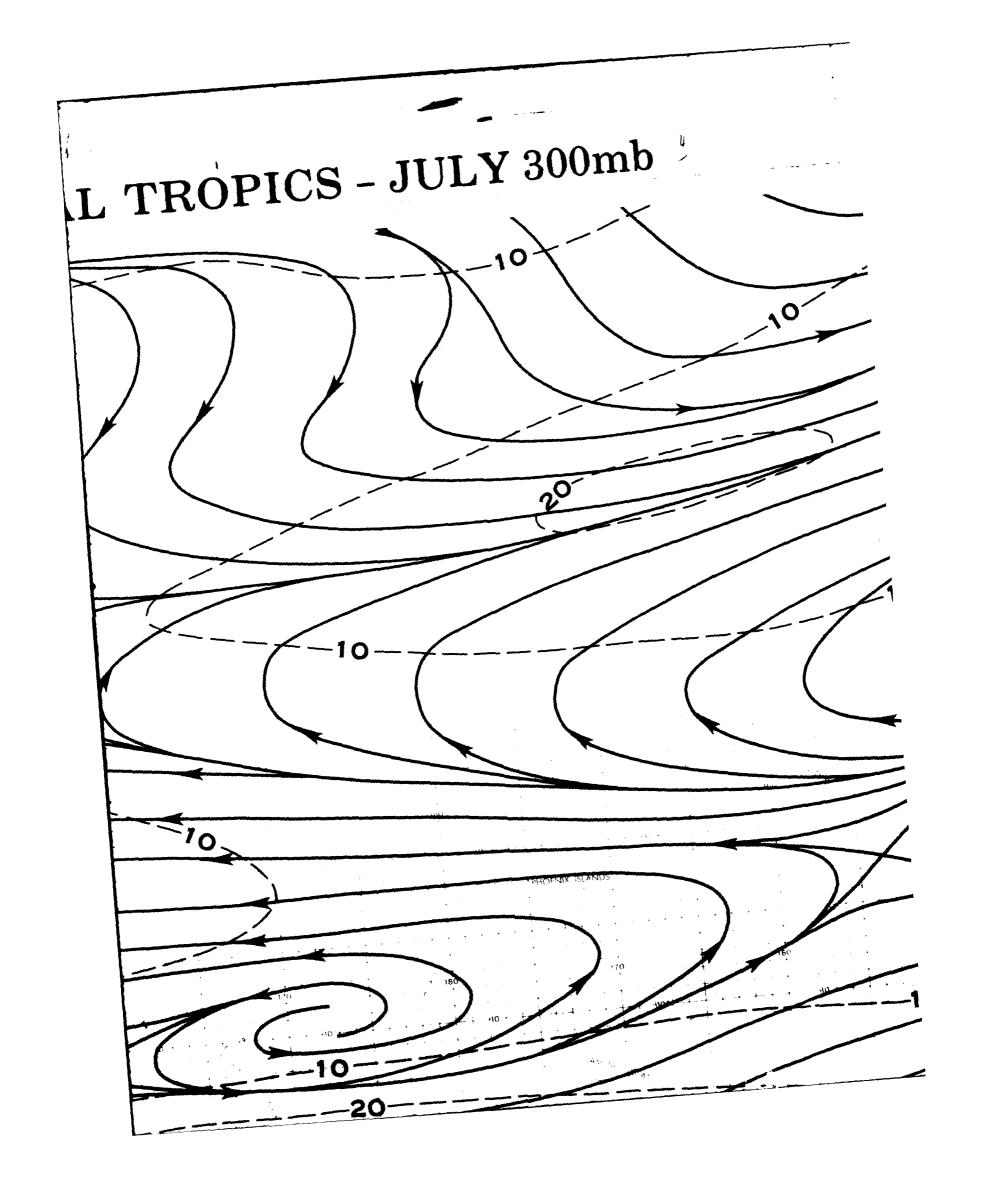
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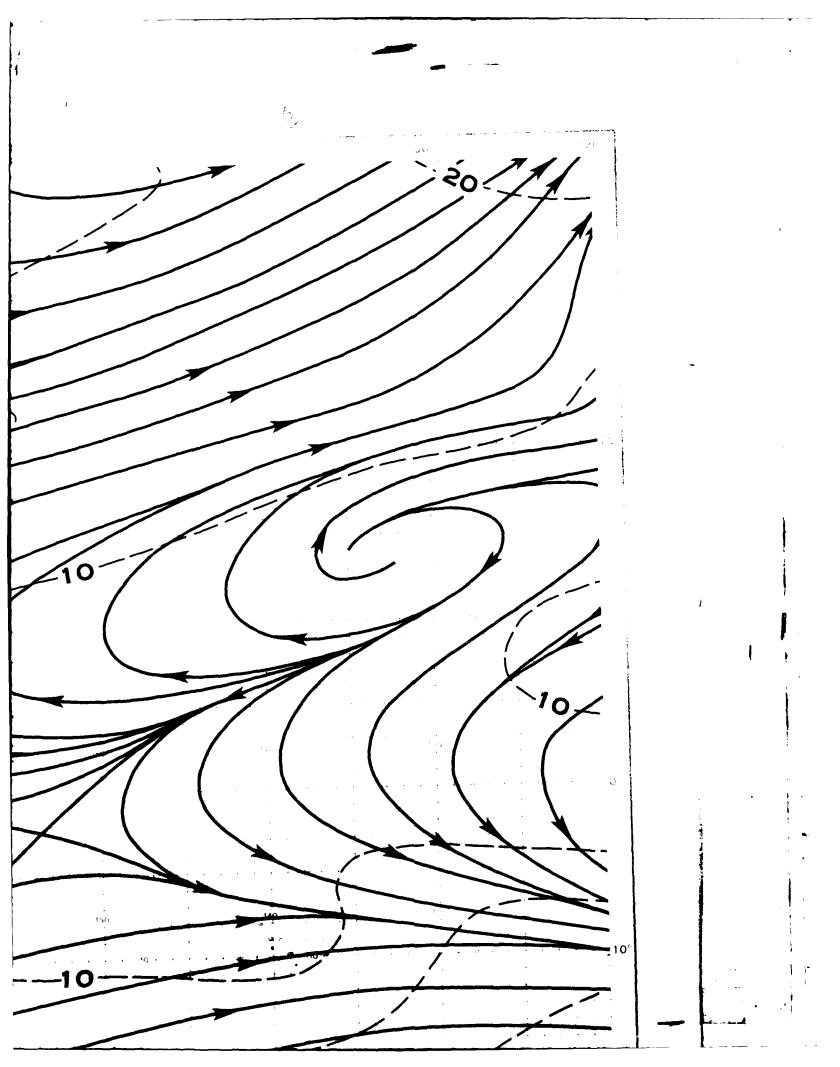
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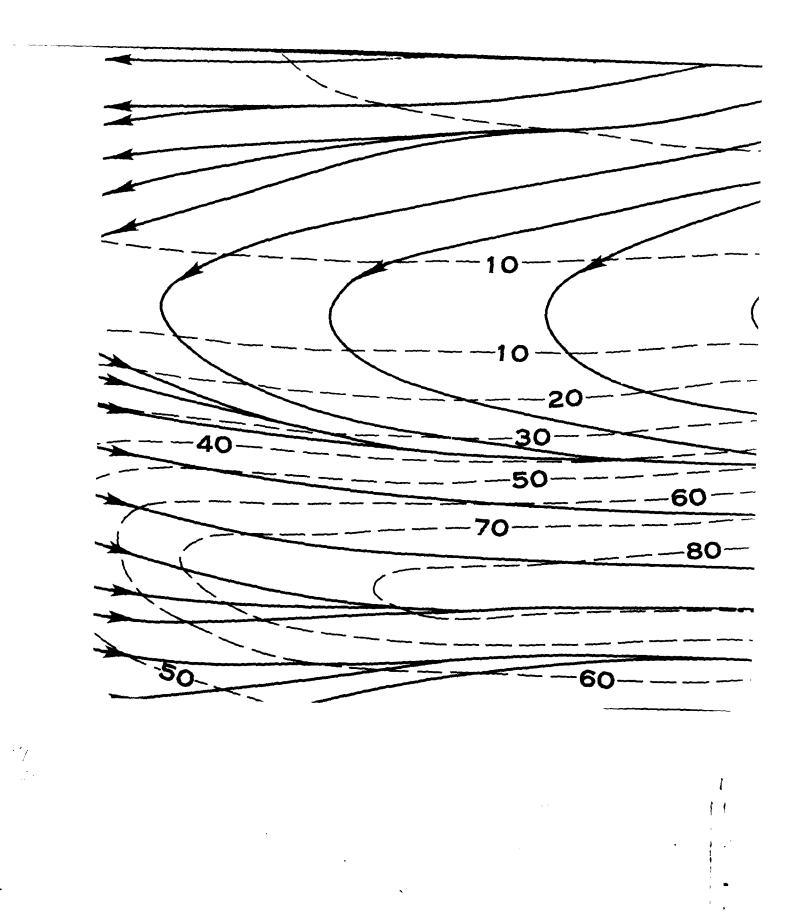


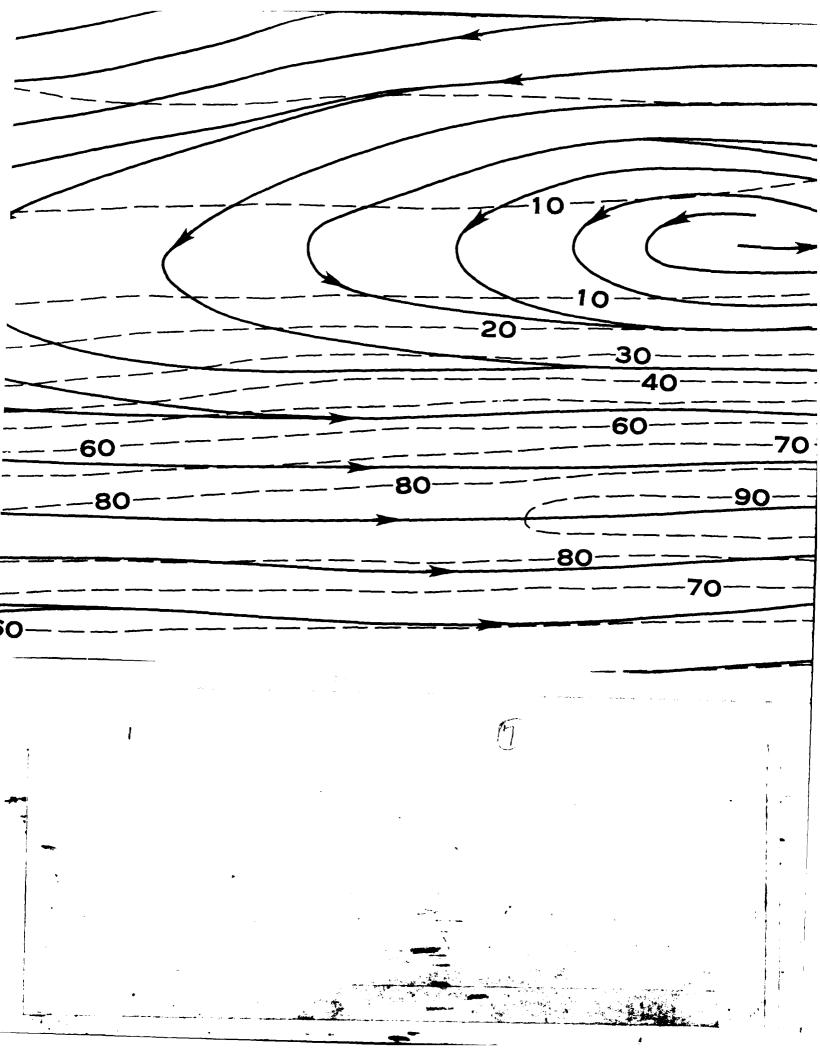
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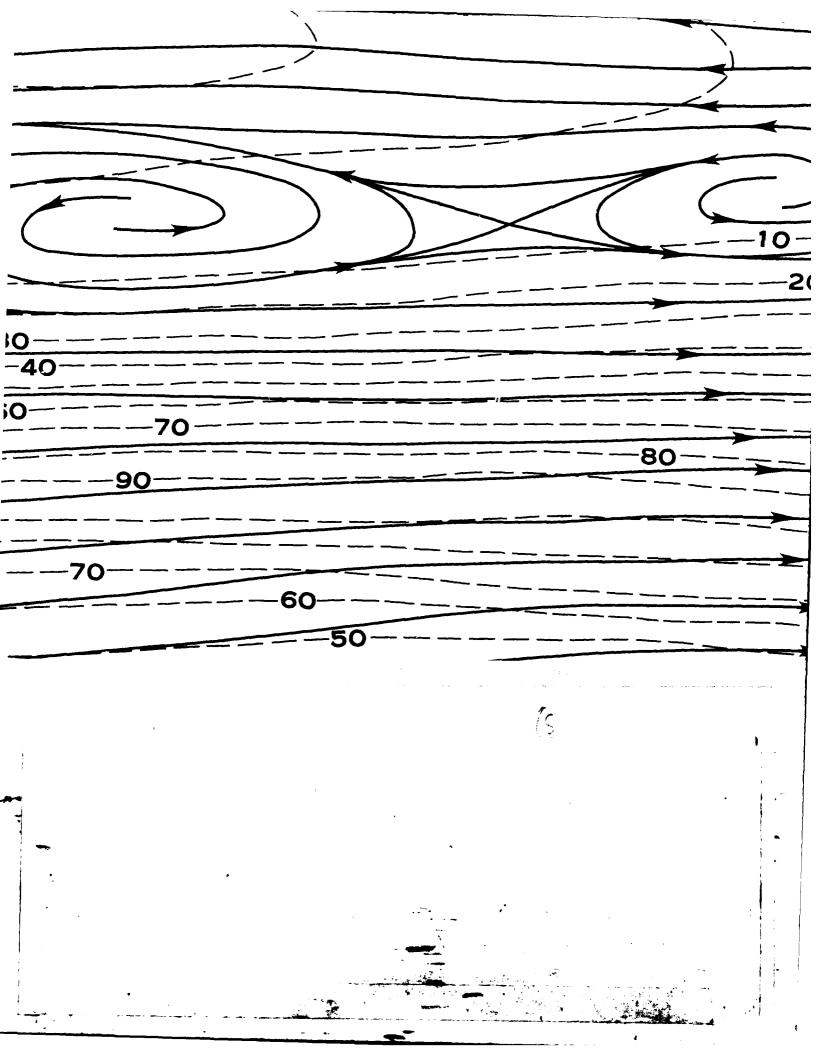


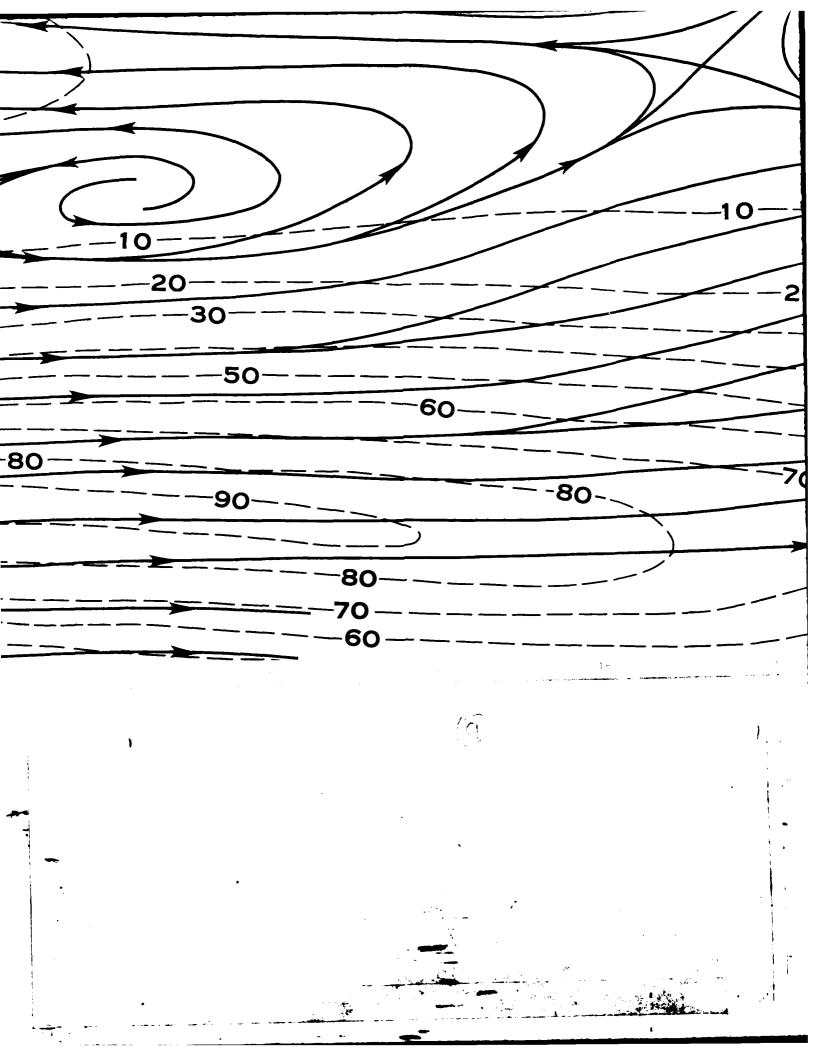


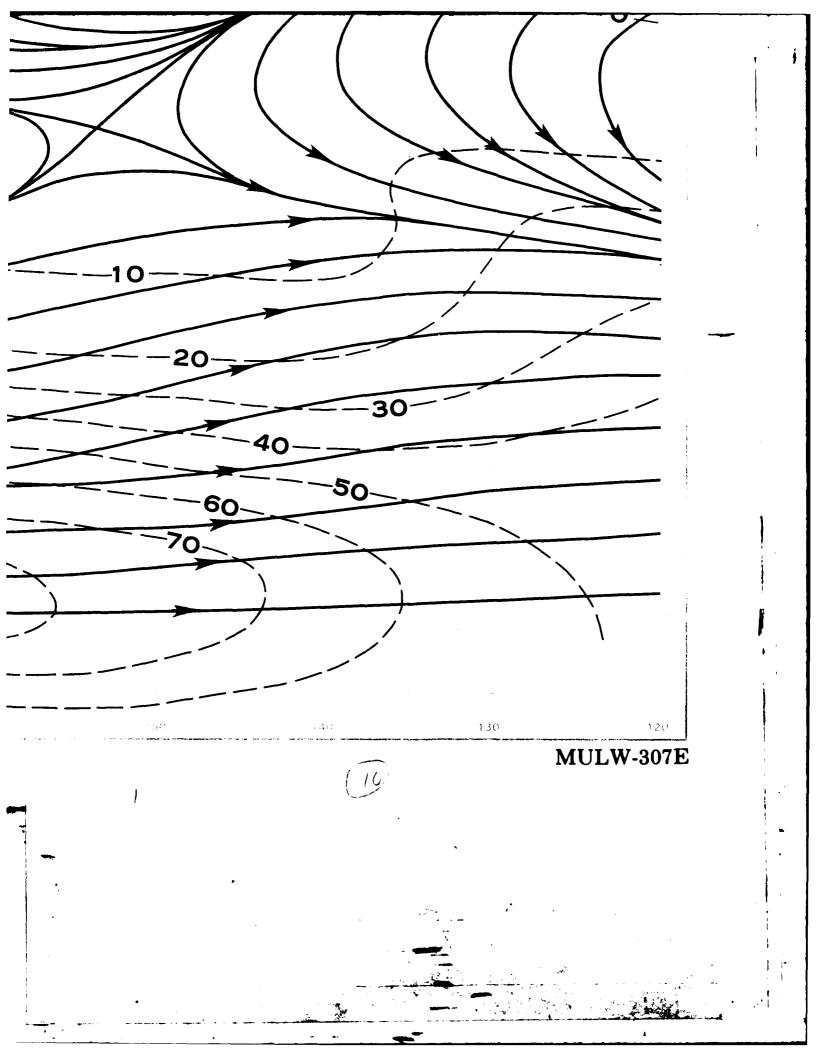


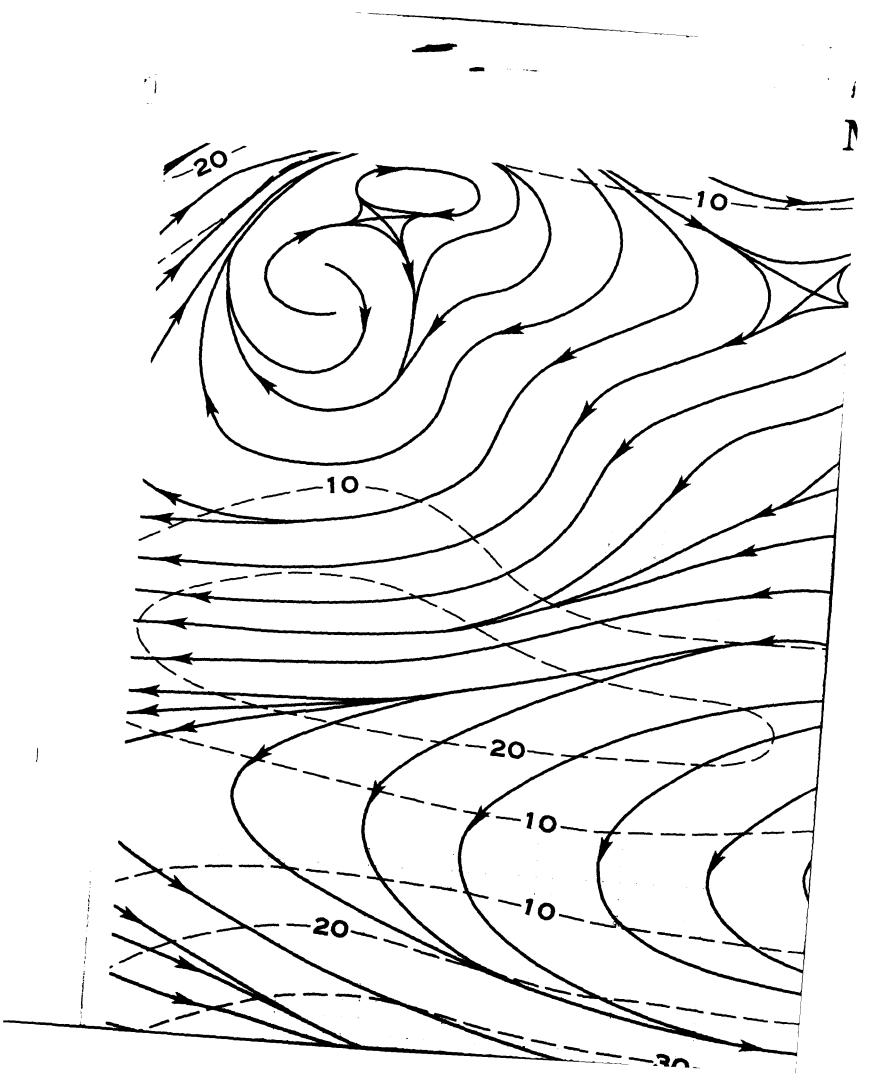






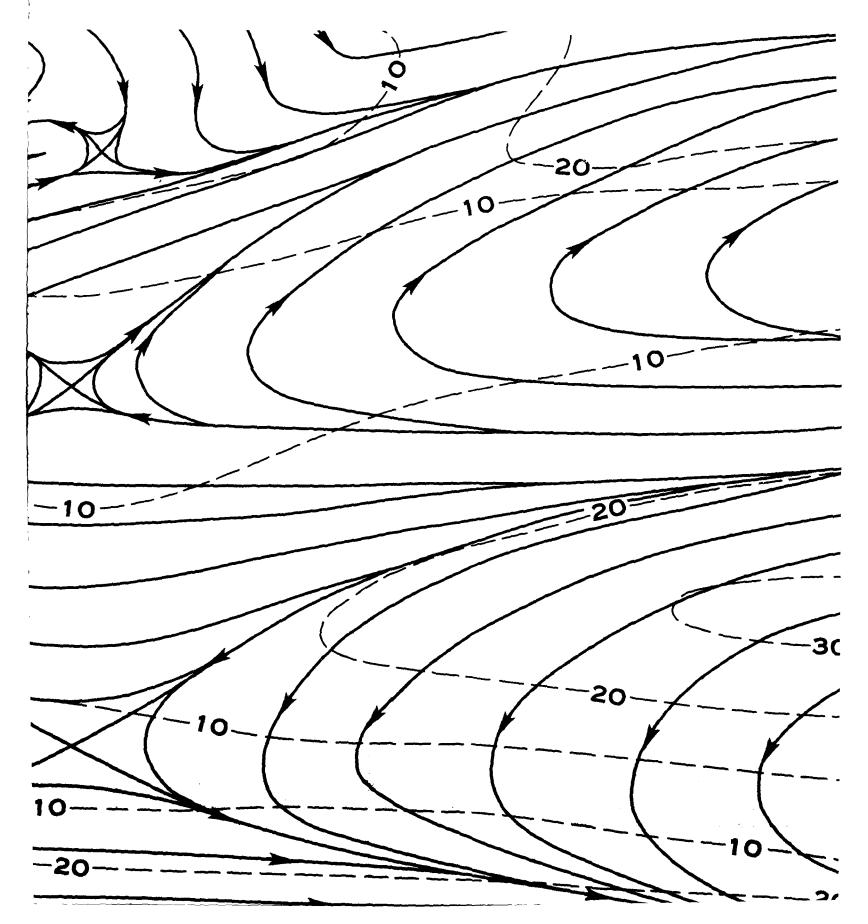


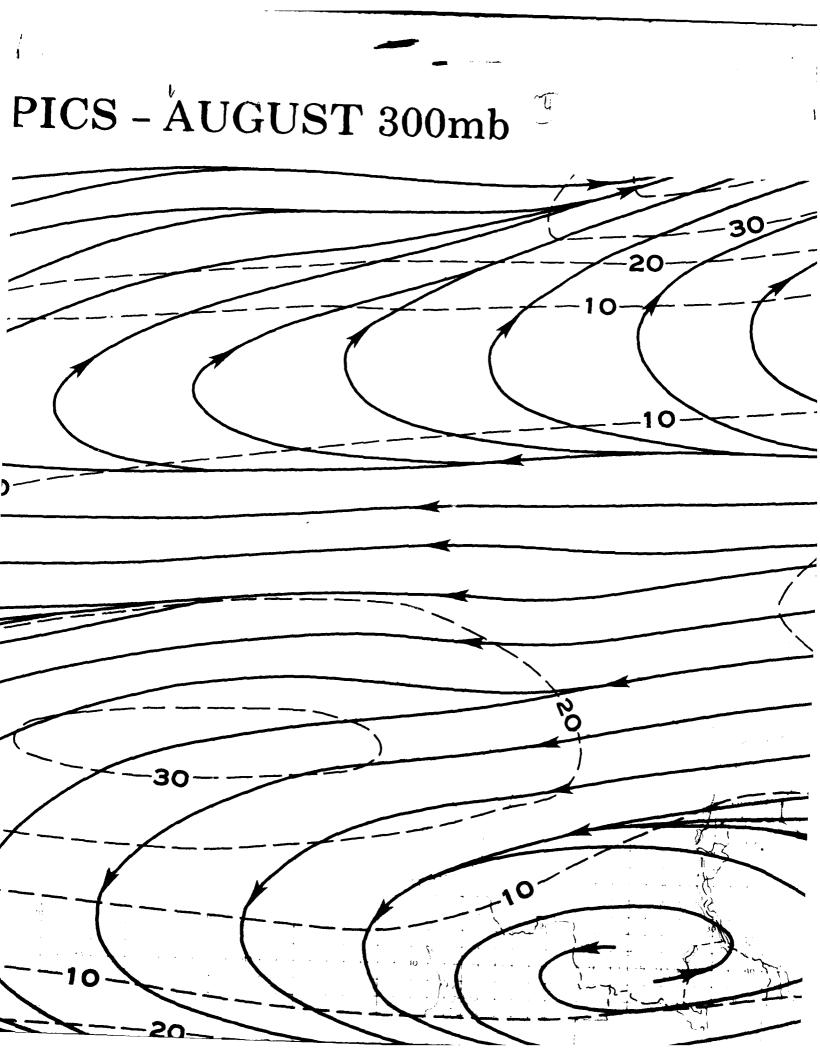


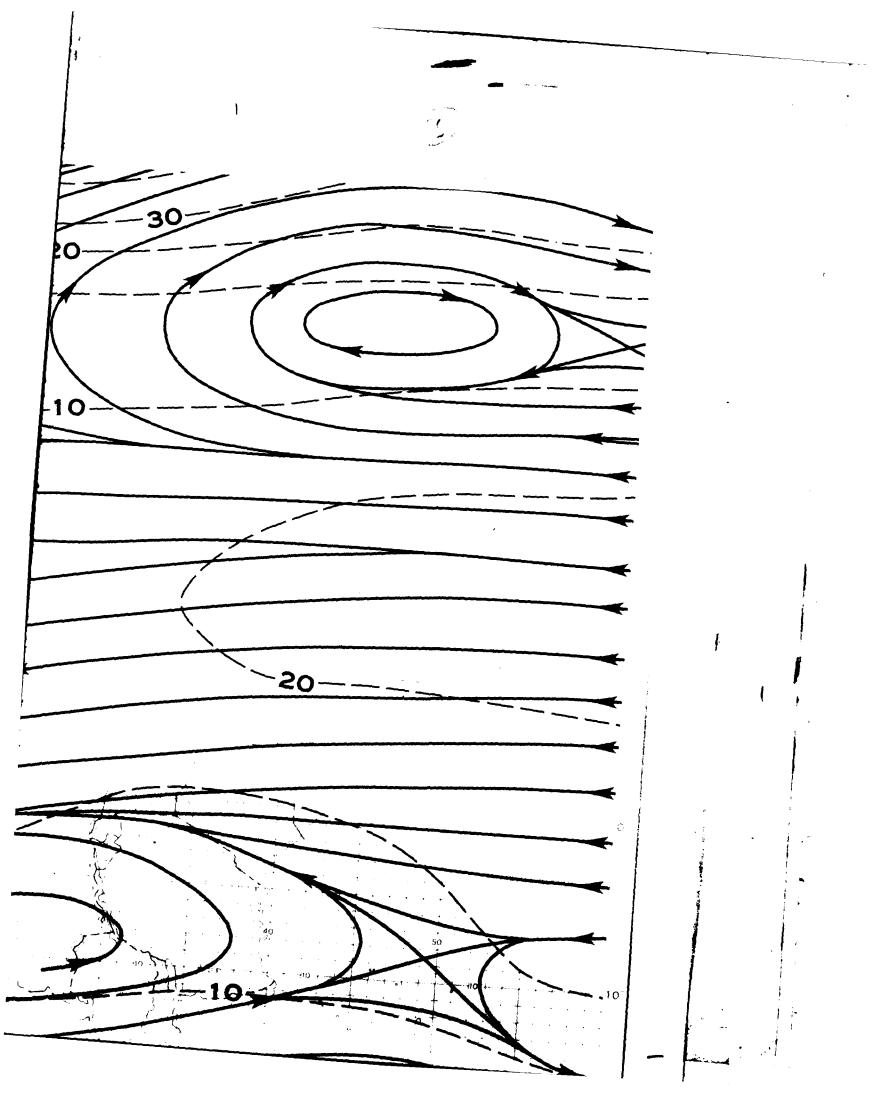


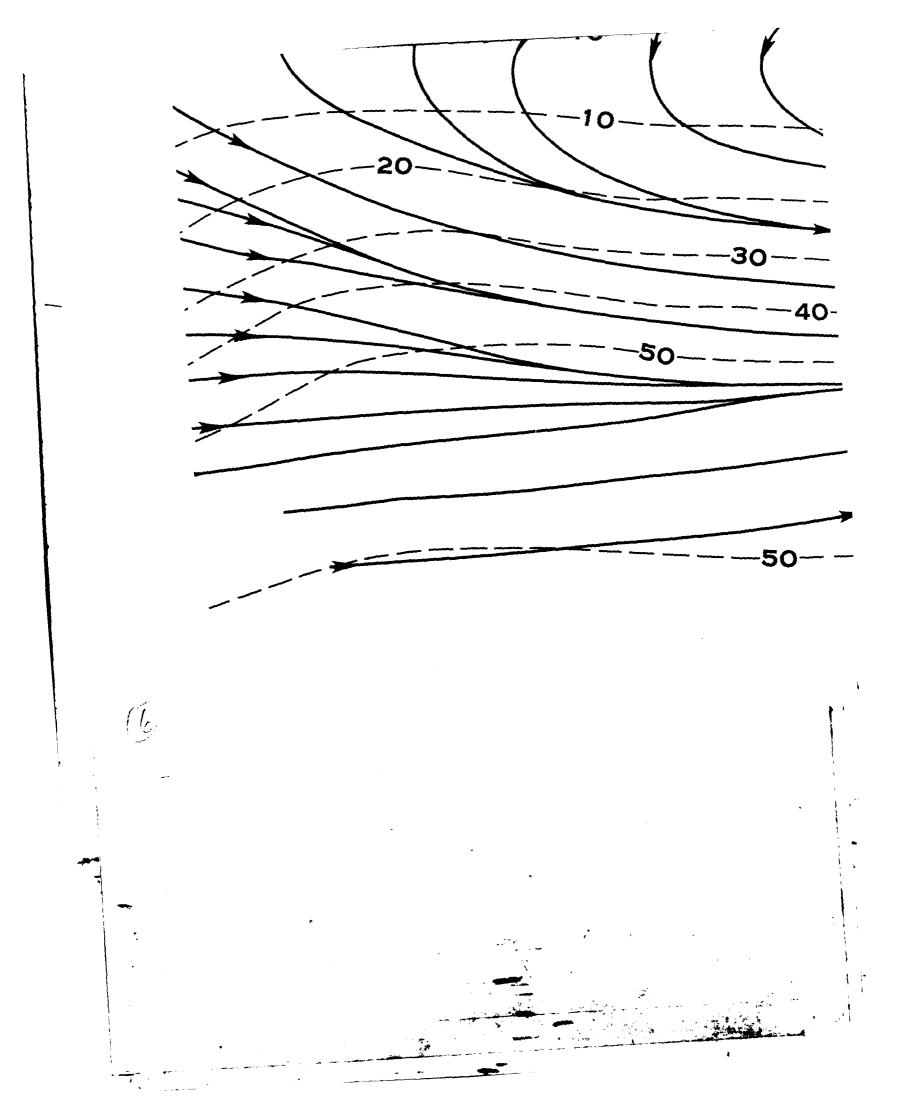
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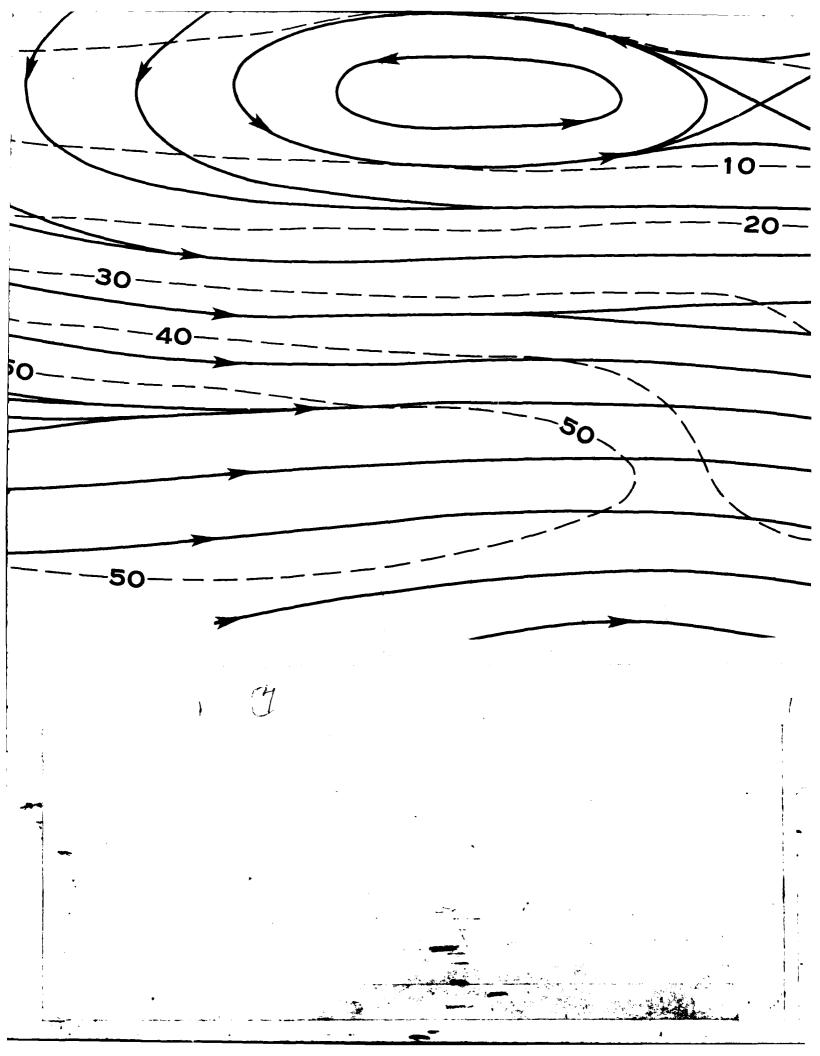
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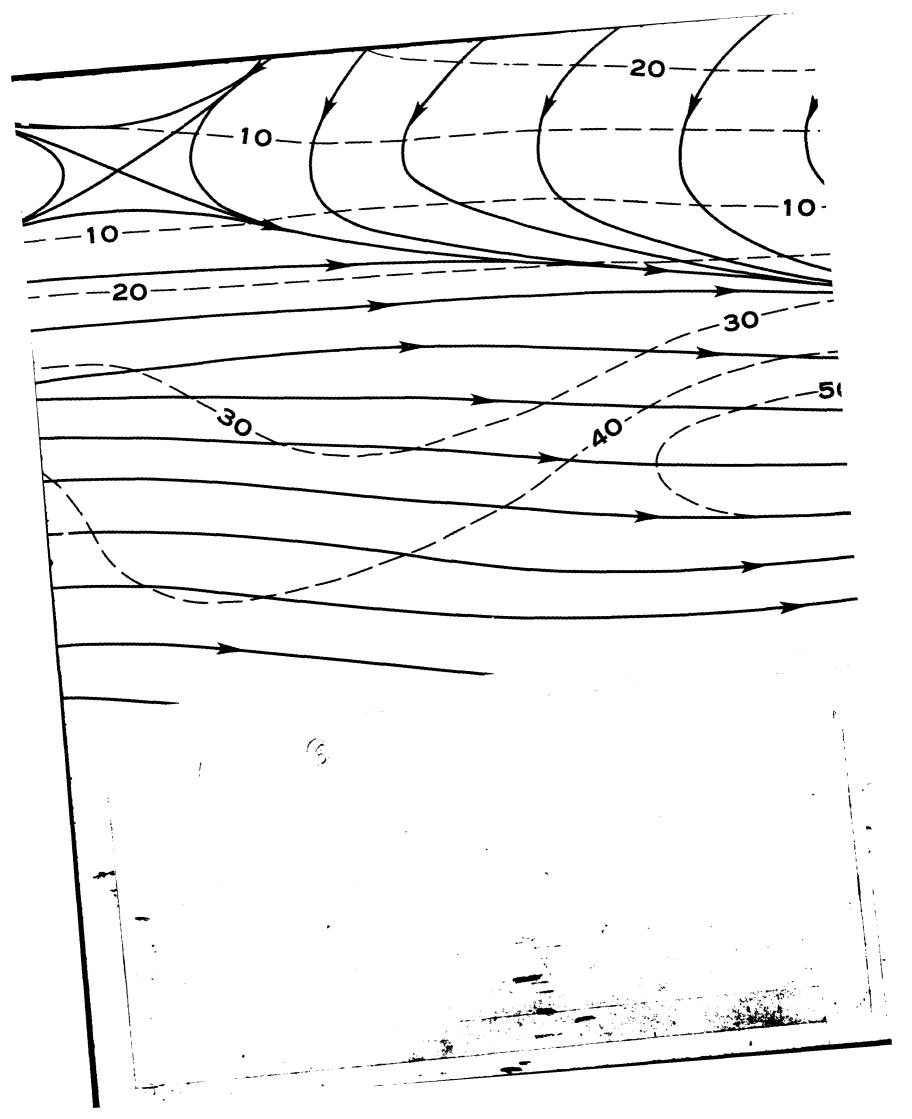


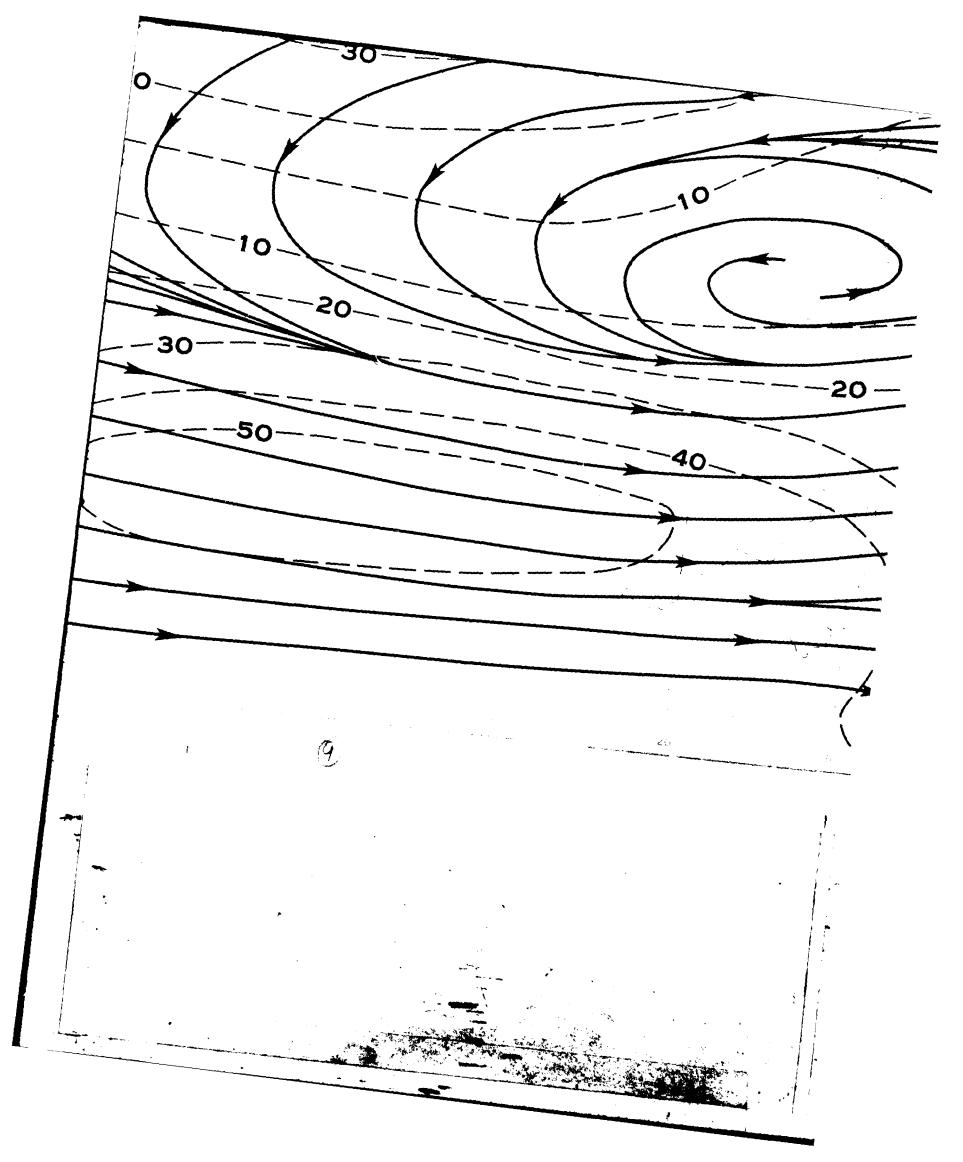


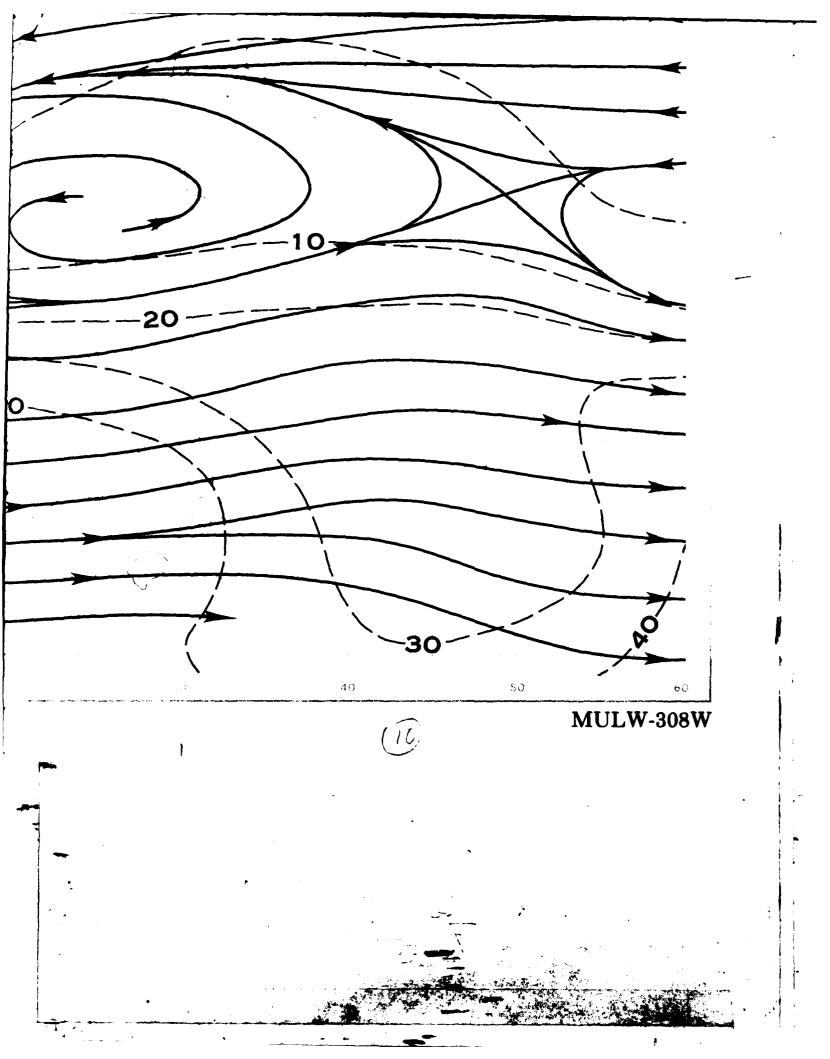


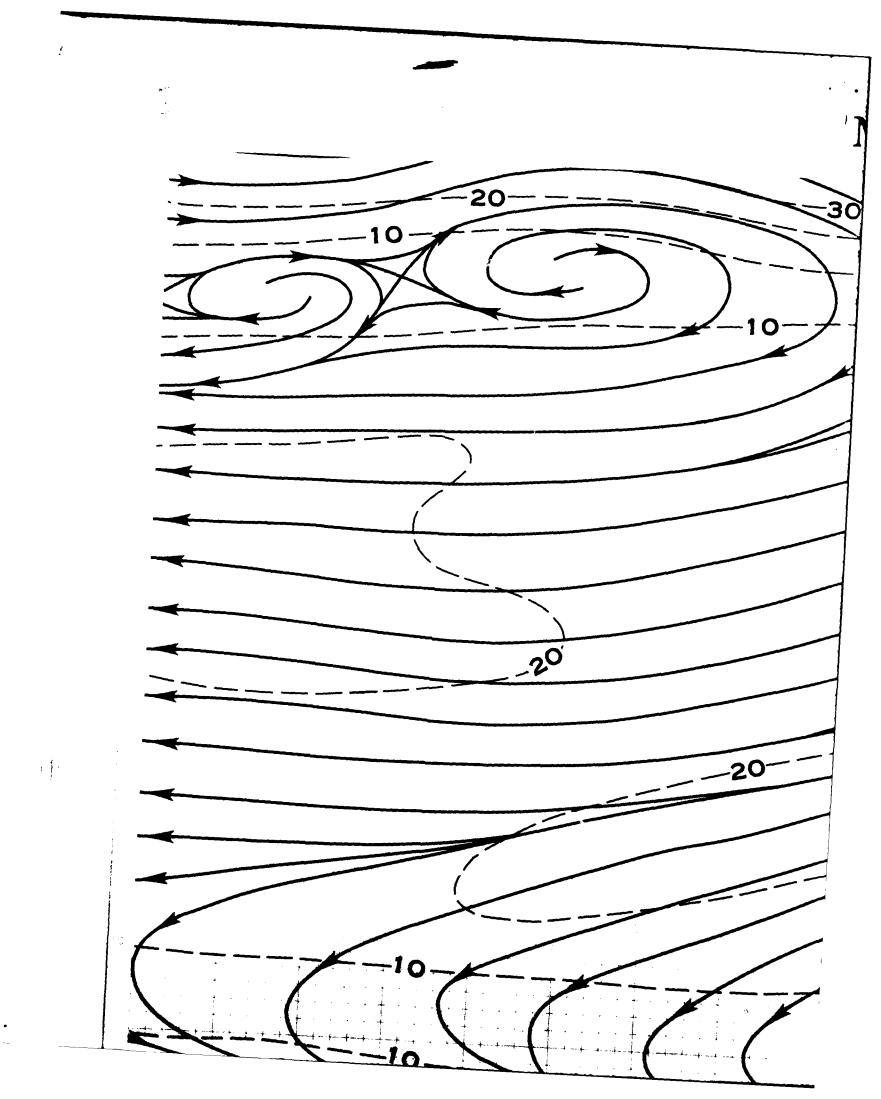




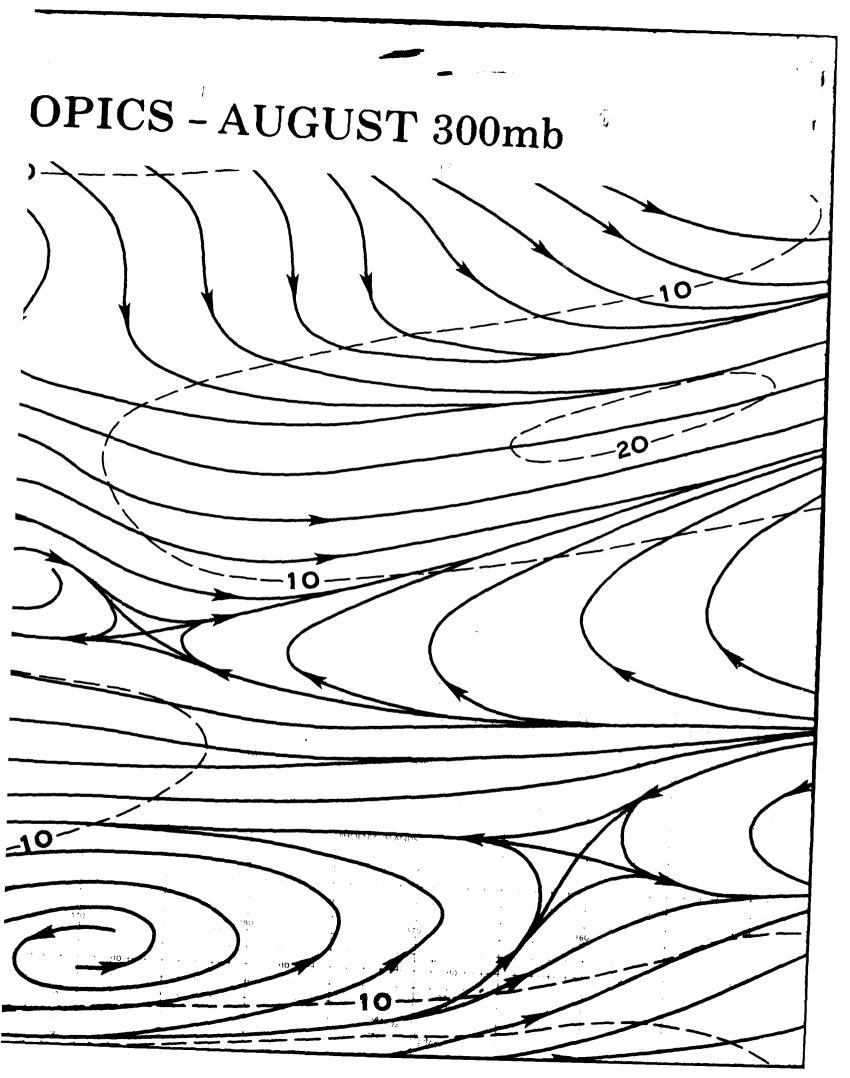


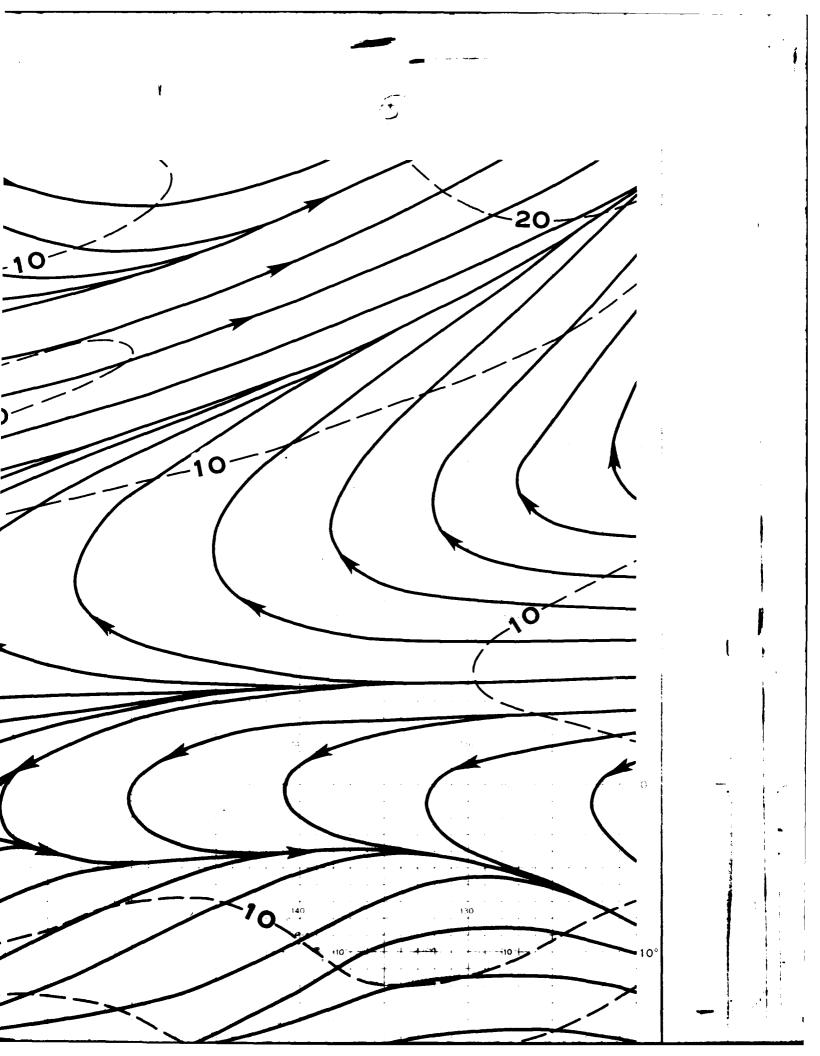


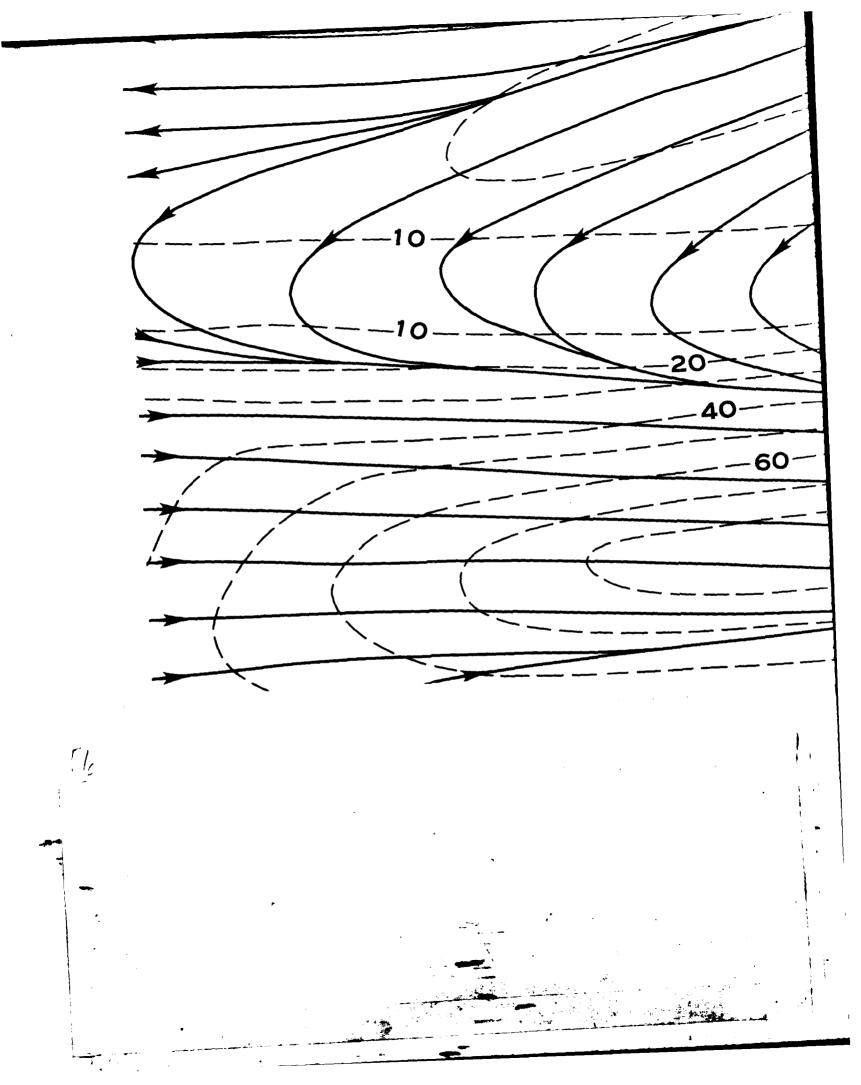


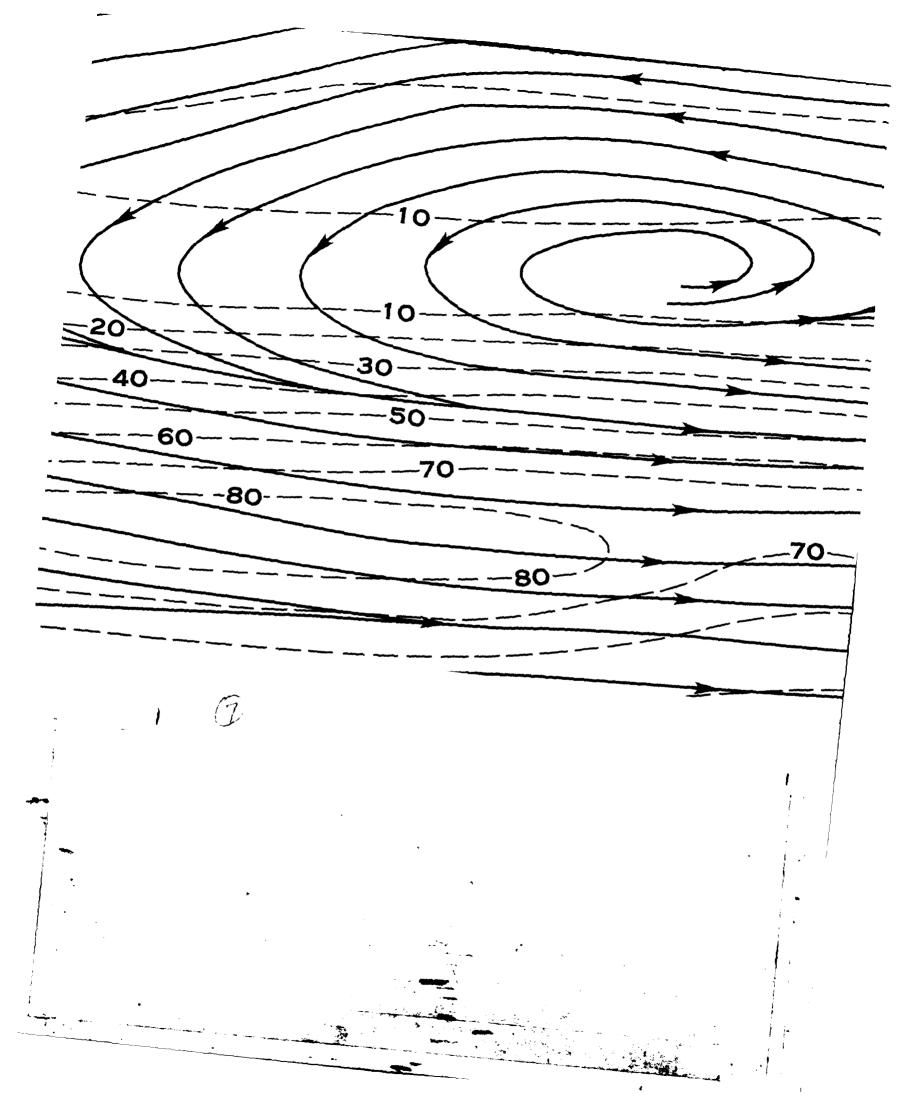


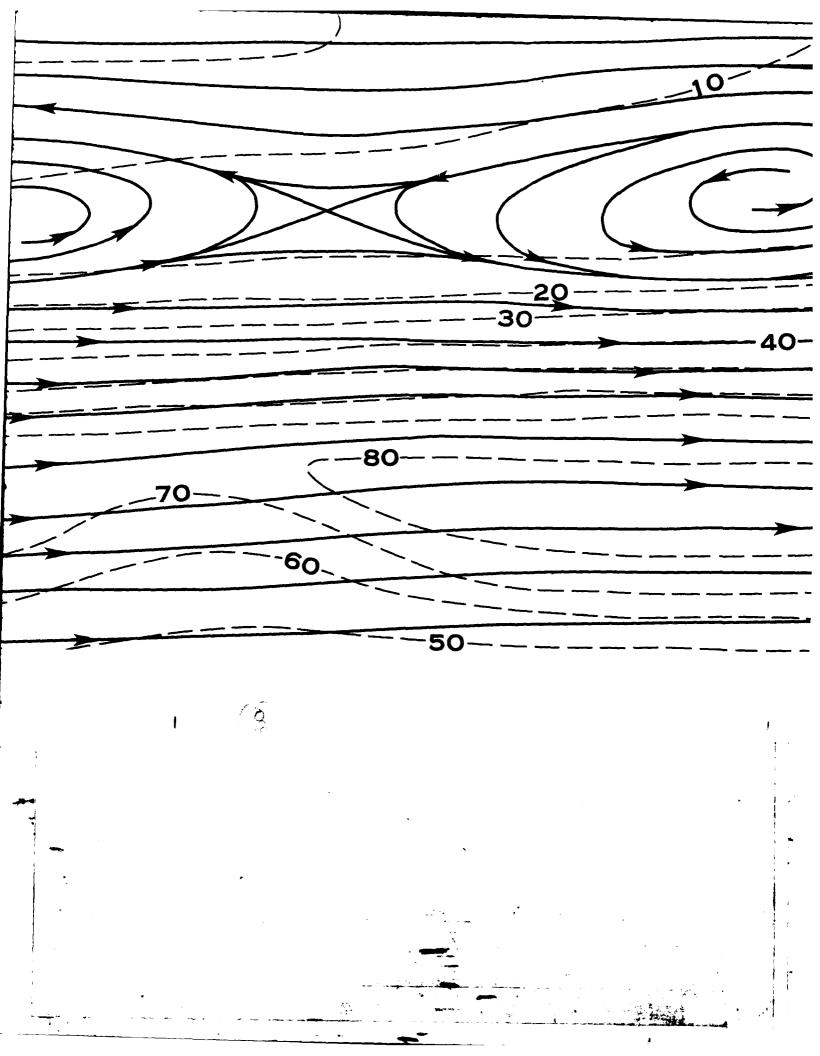
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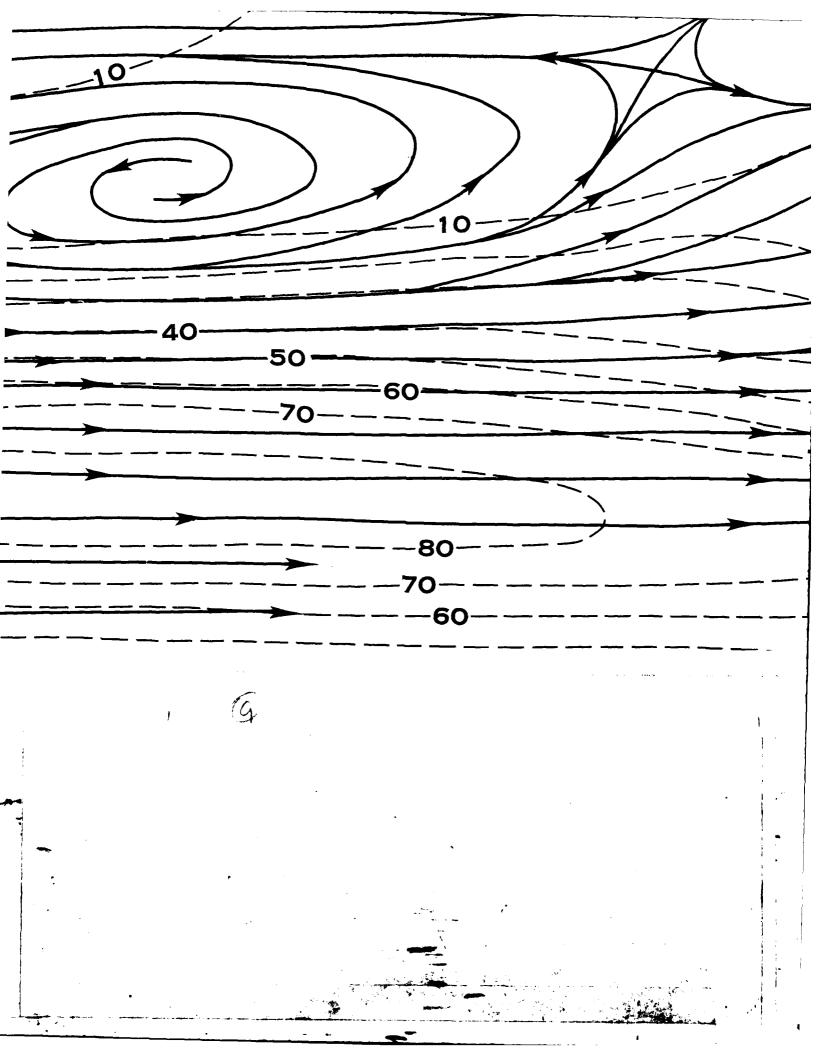


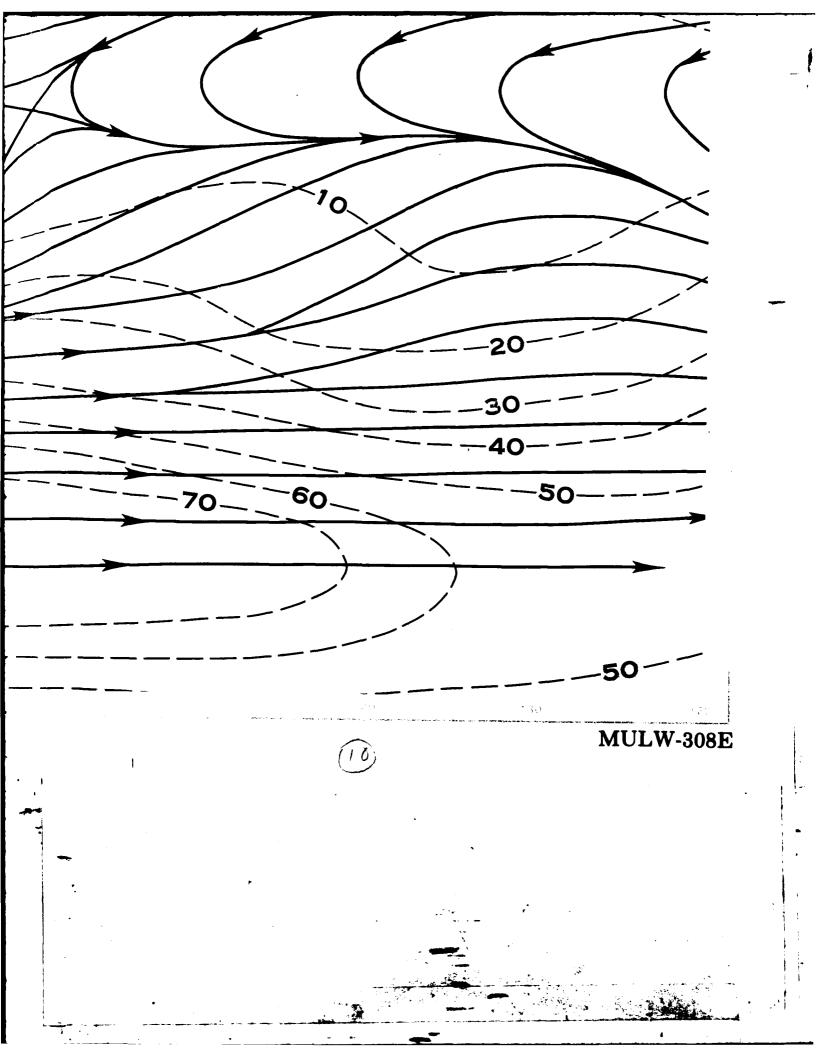










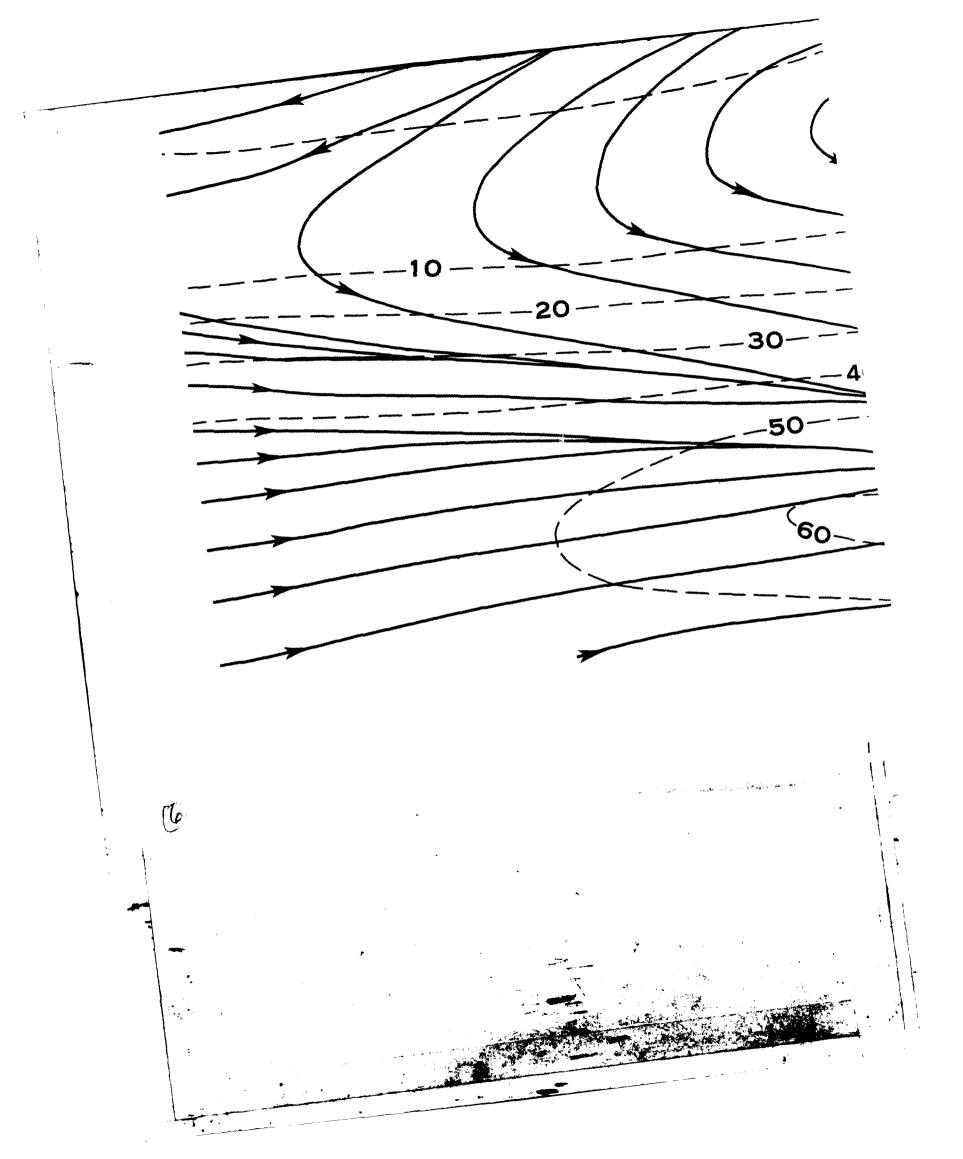


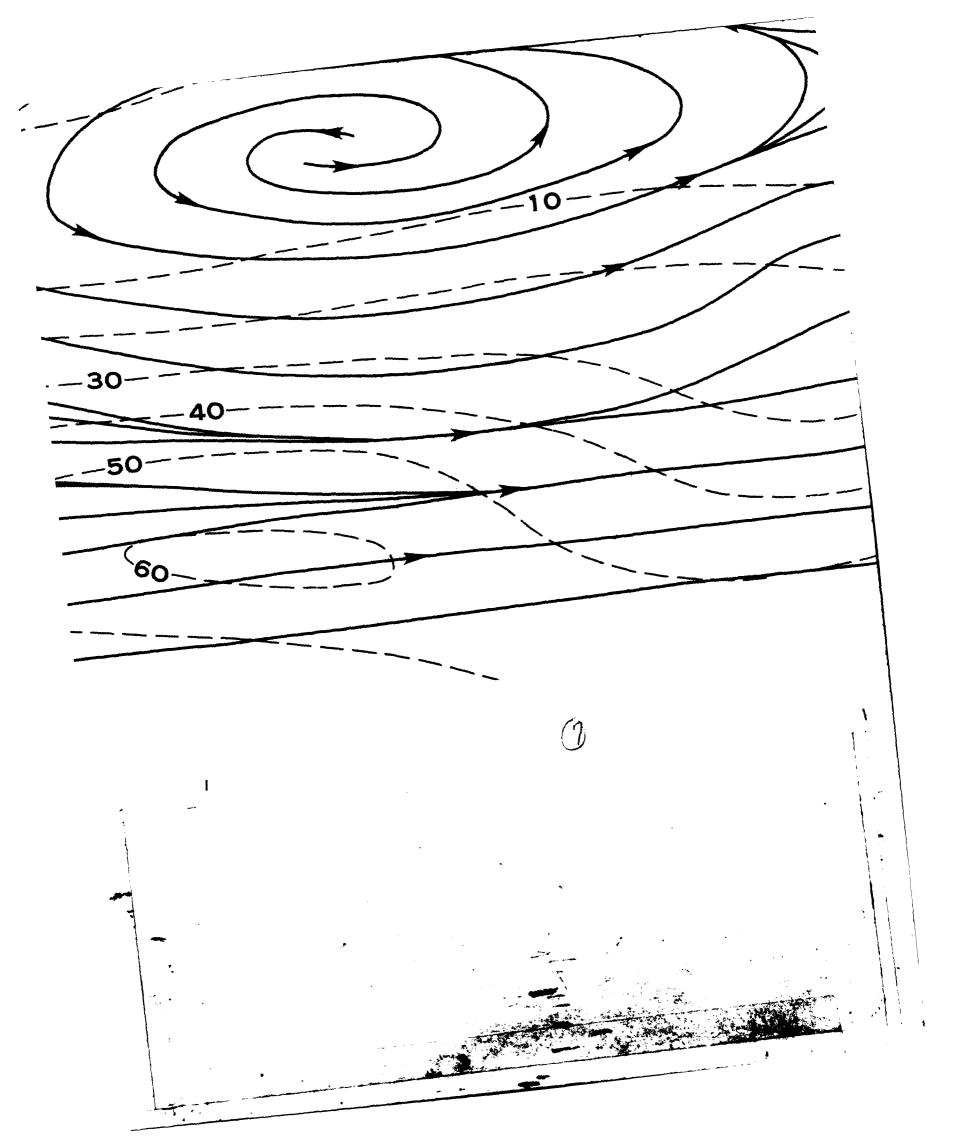
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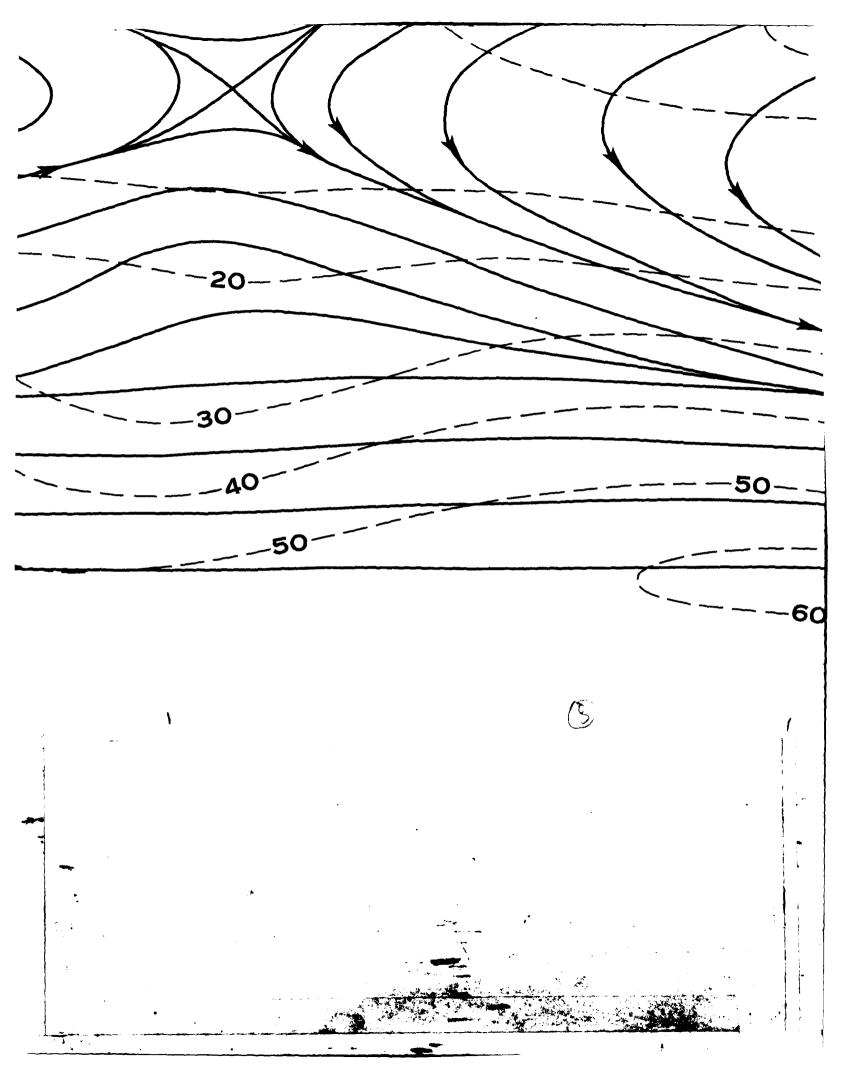
L'WINDS over GLOBAL TROPICS -

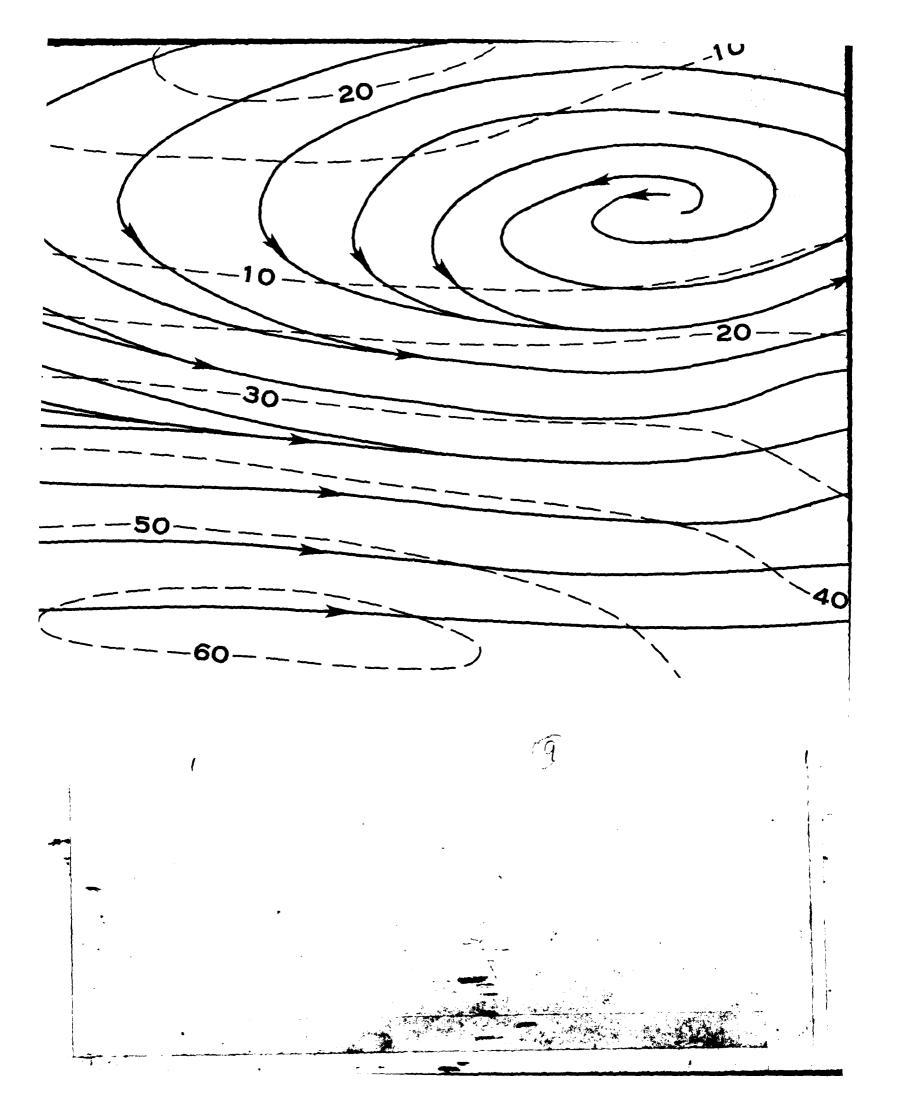
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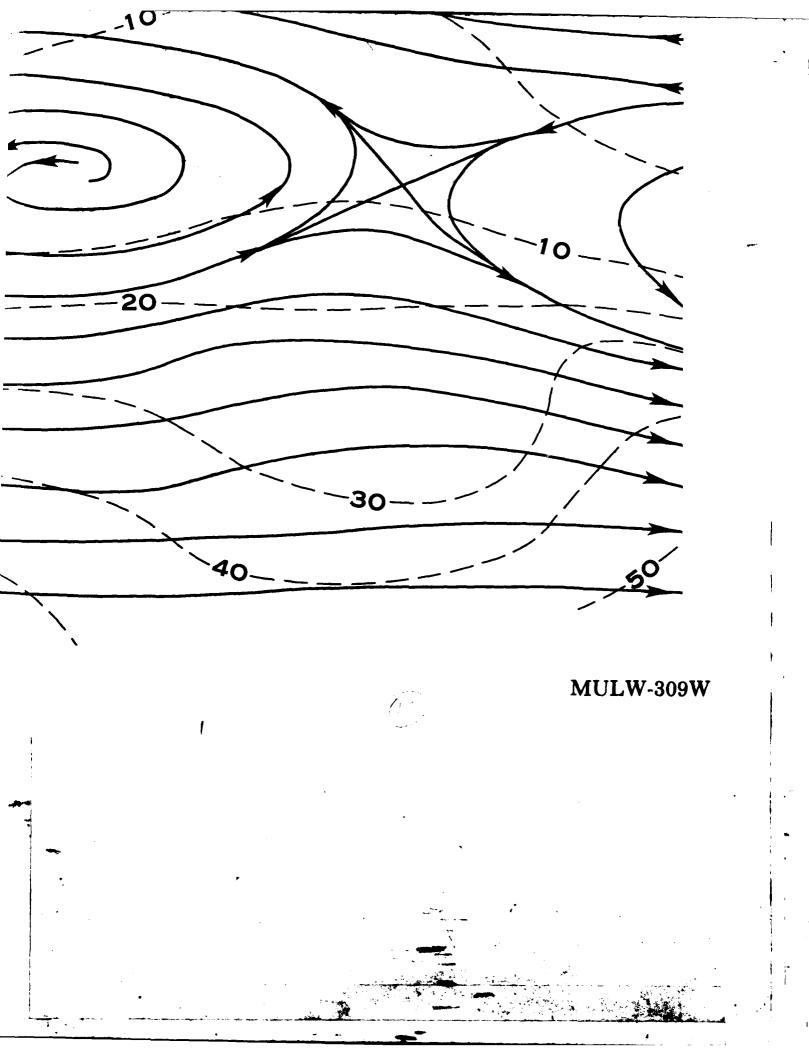


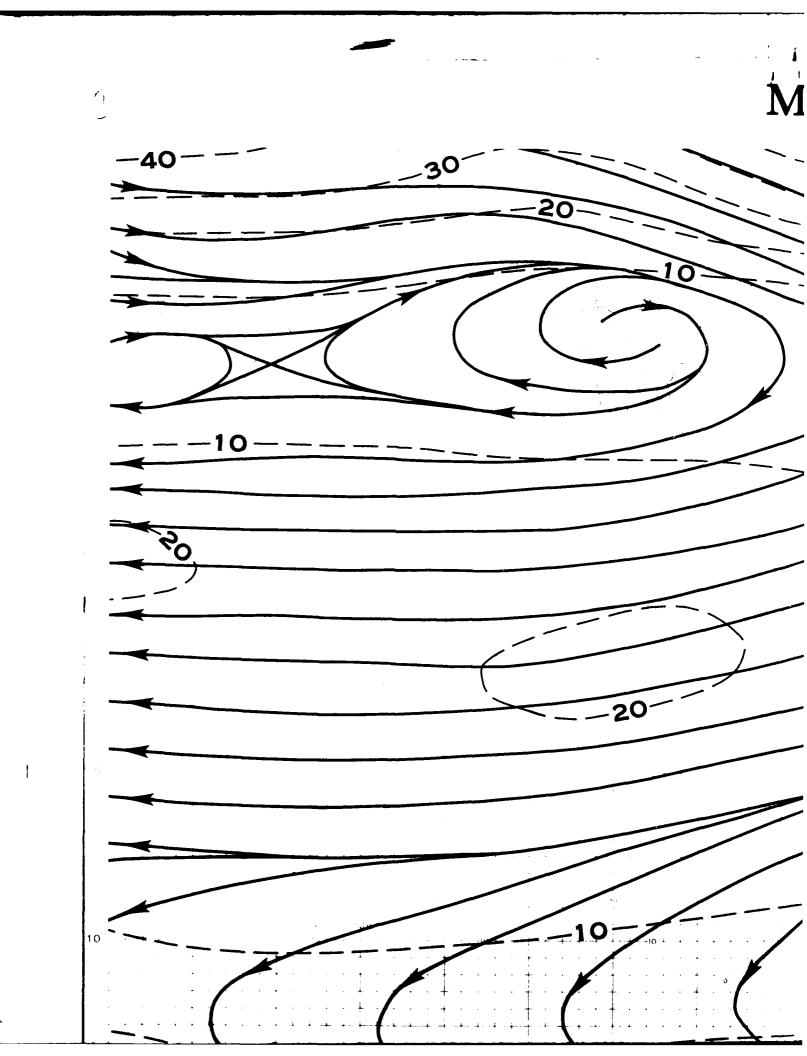




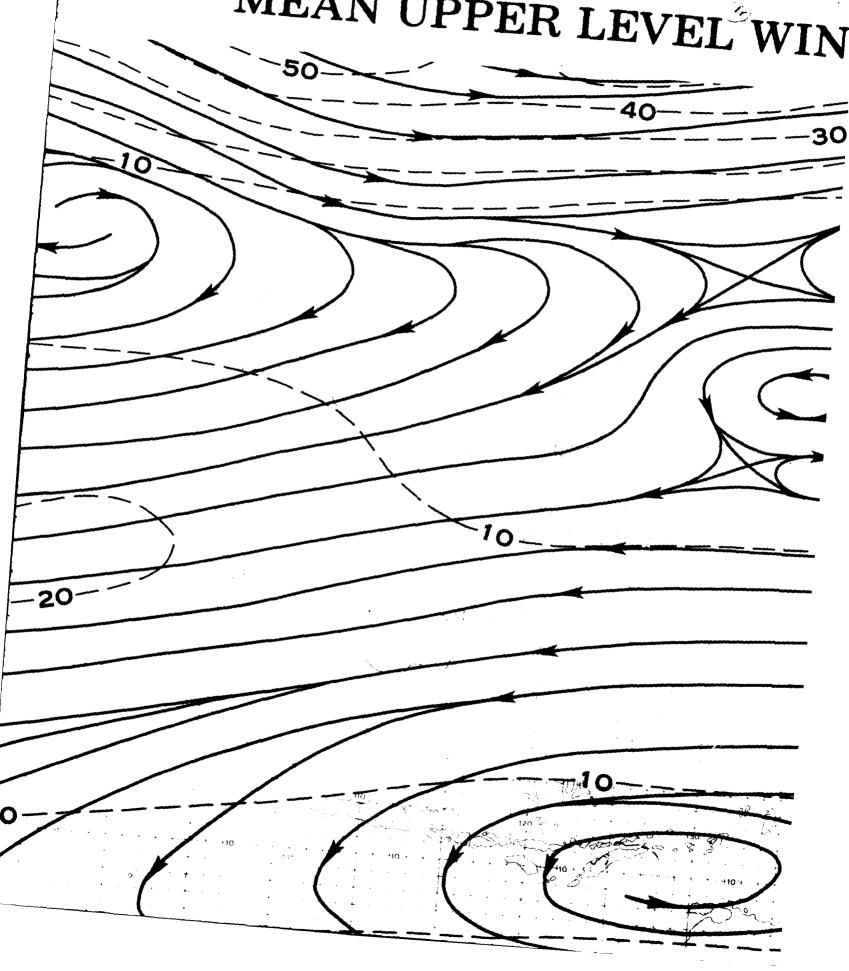




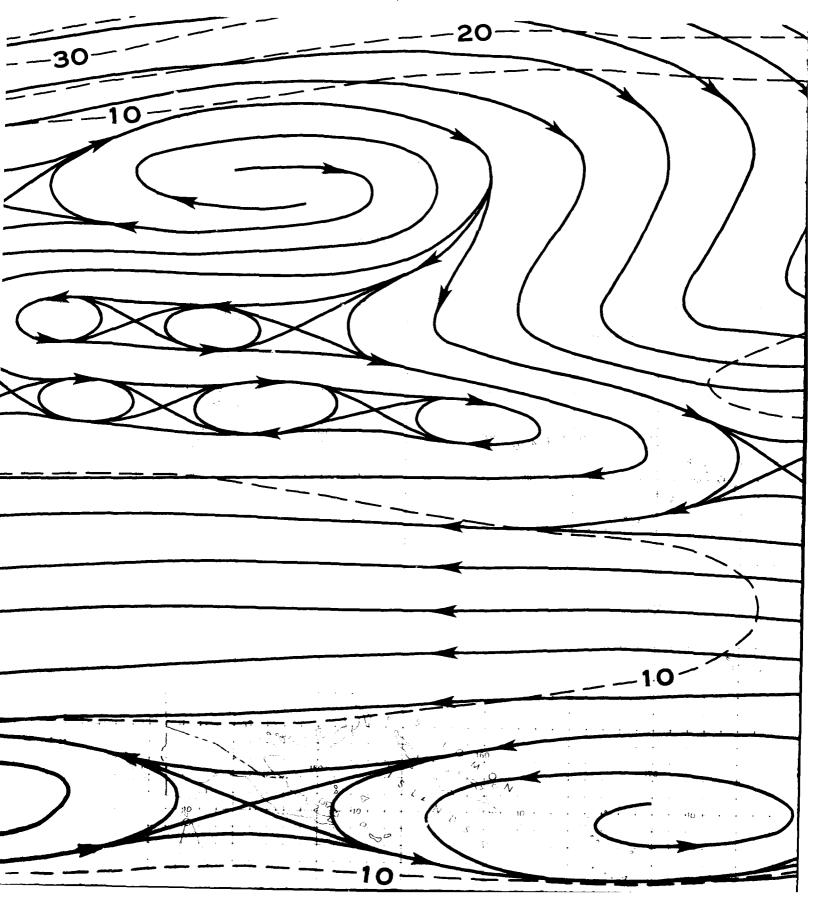




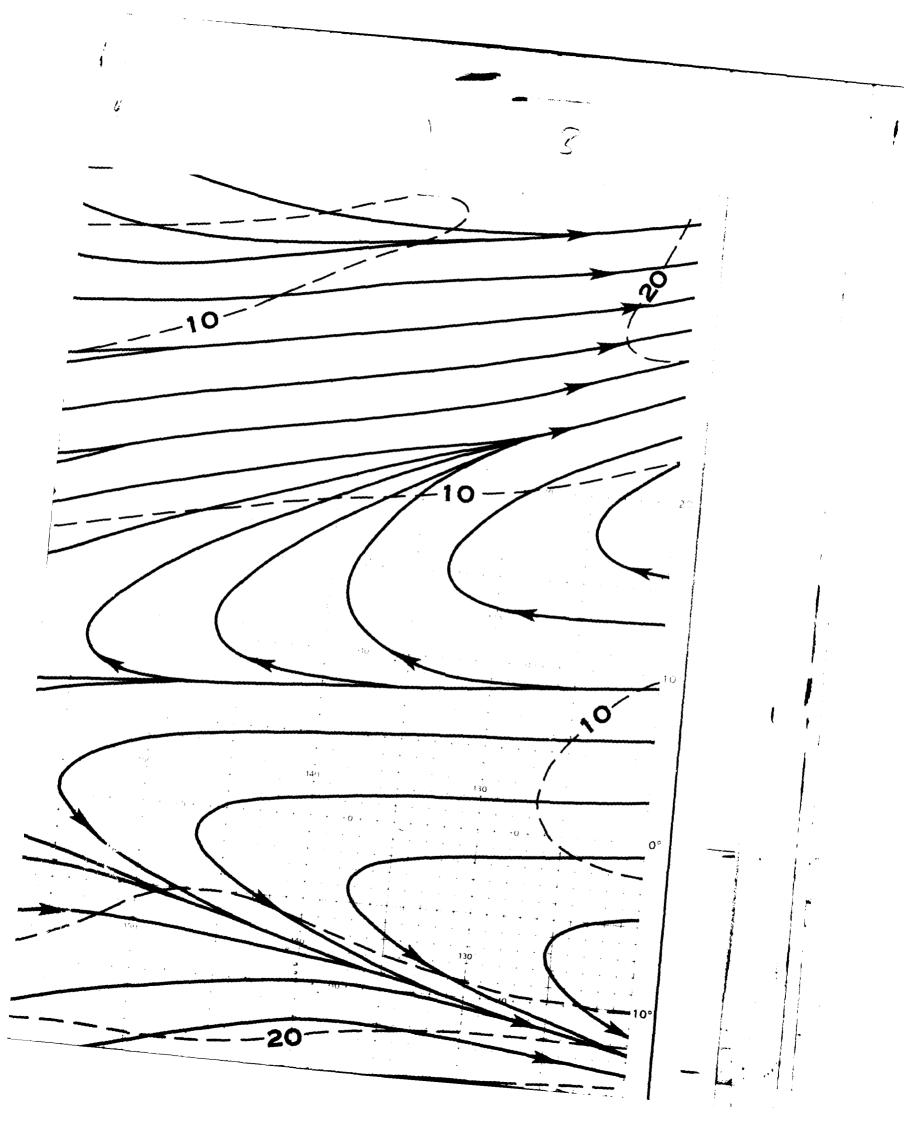
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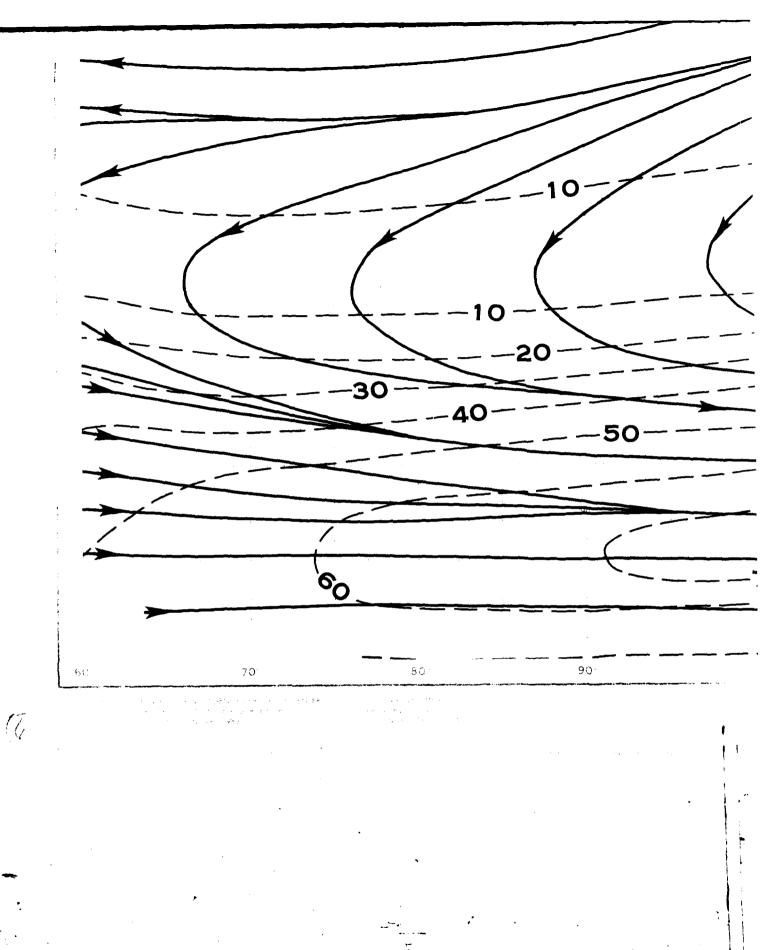


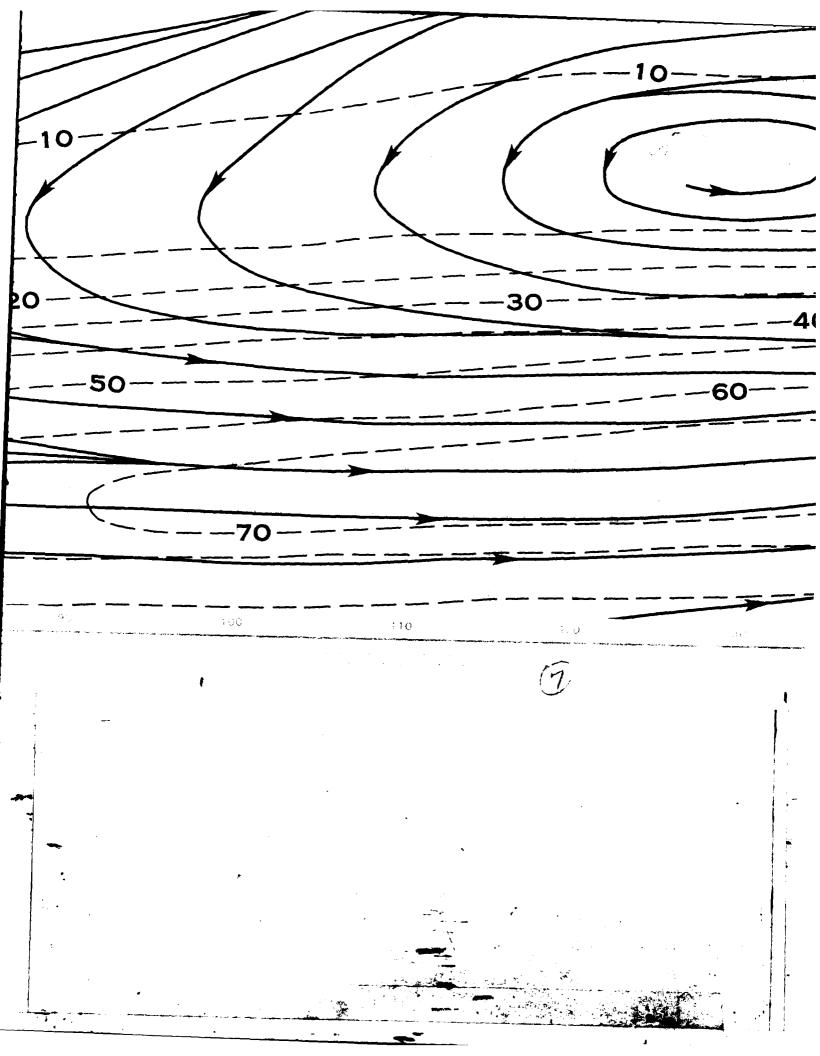
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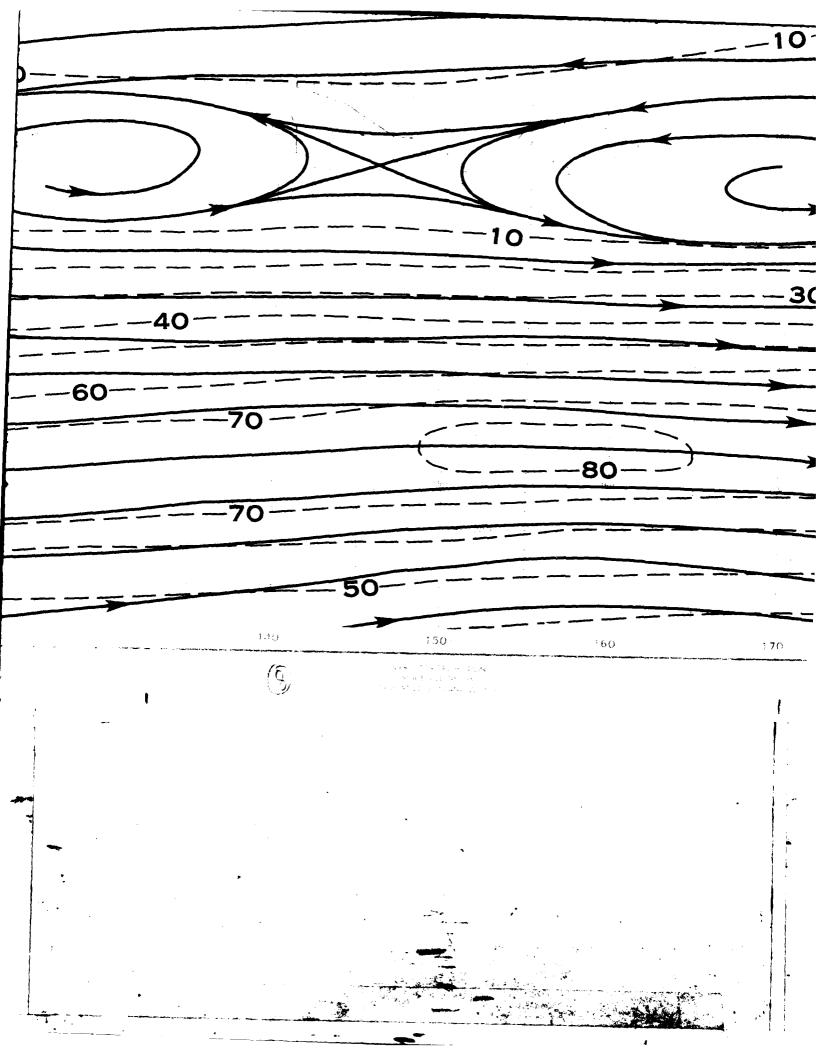


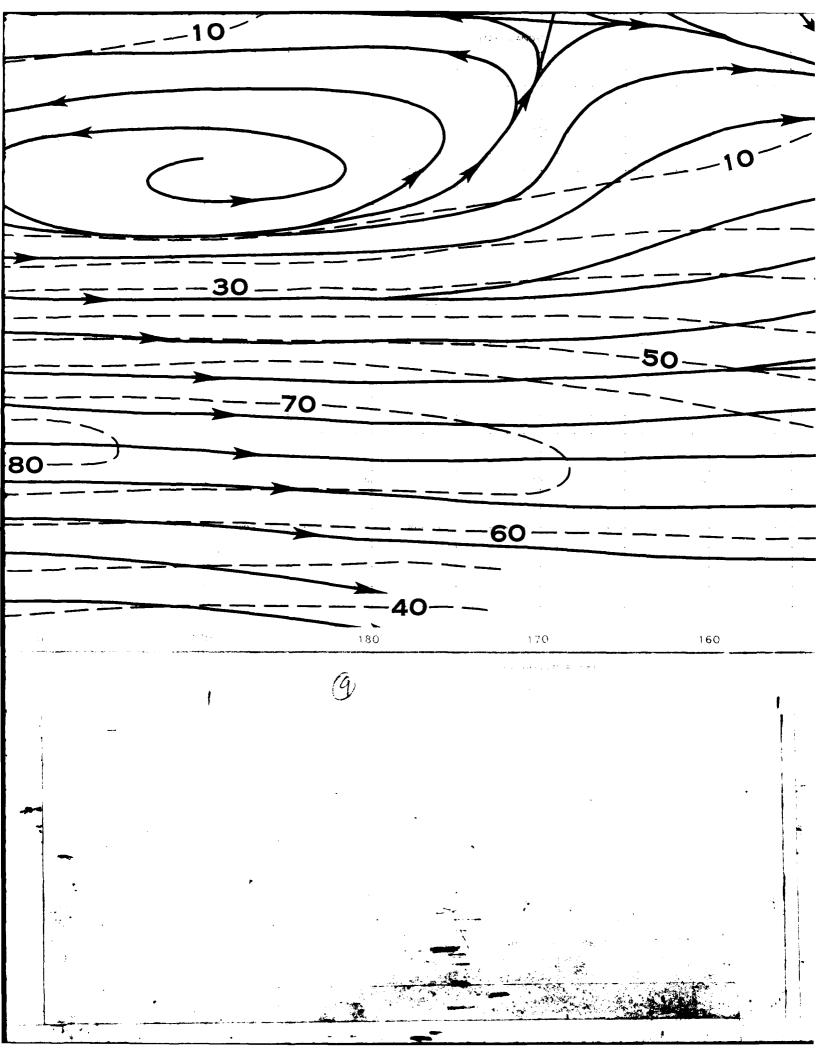
## EPTEMBER 300mb

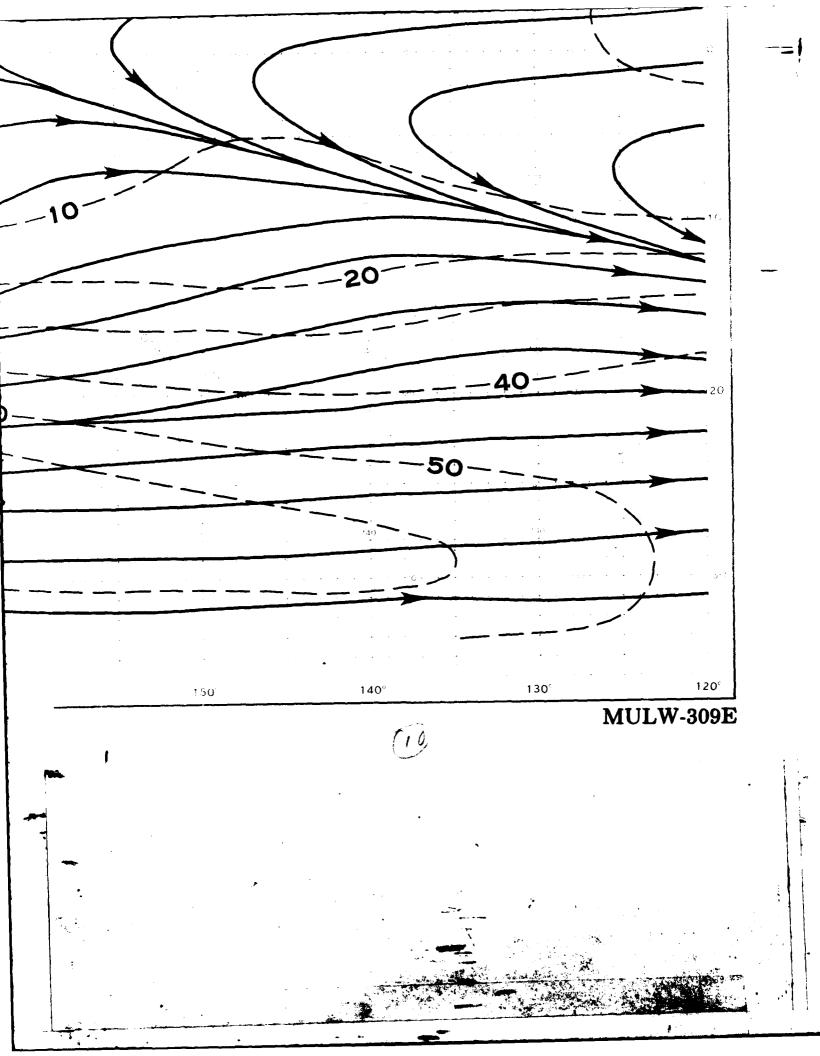






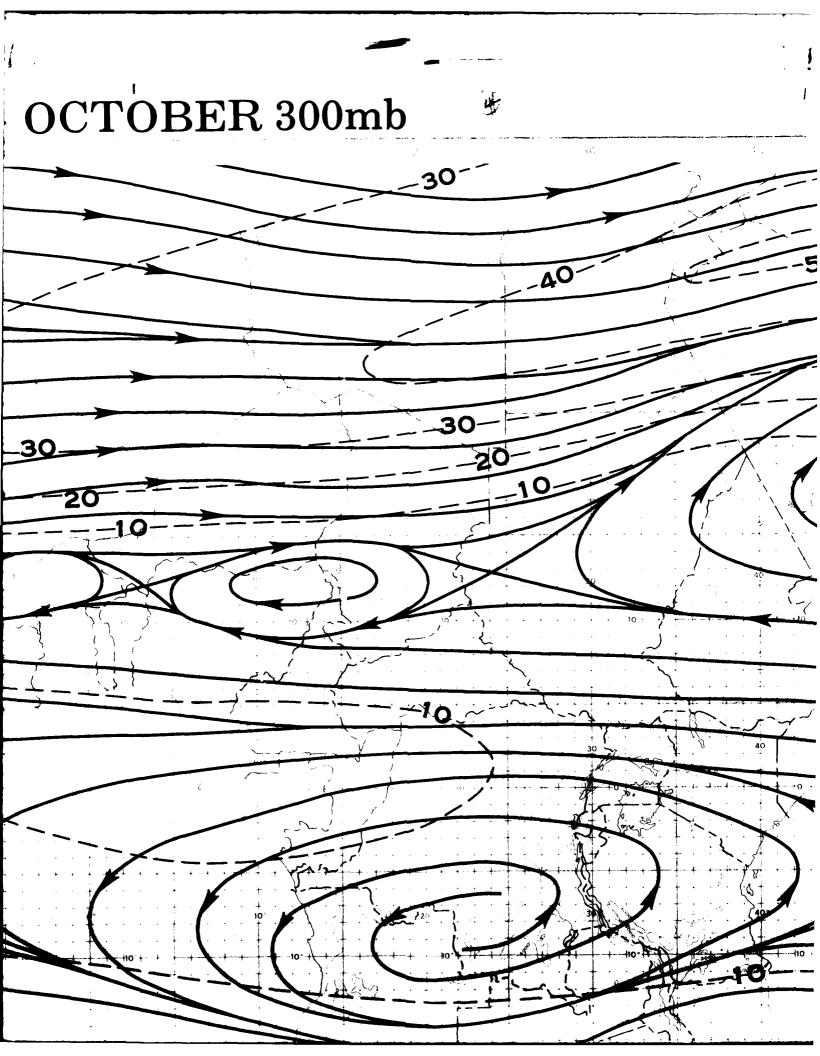


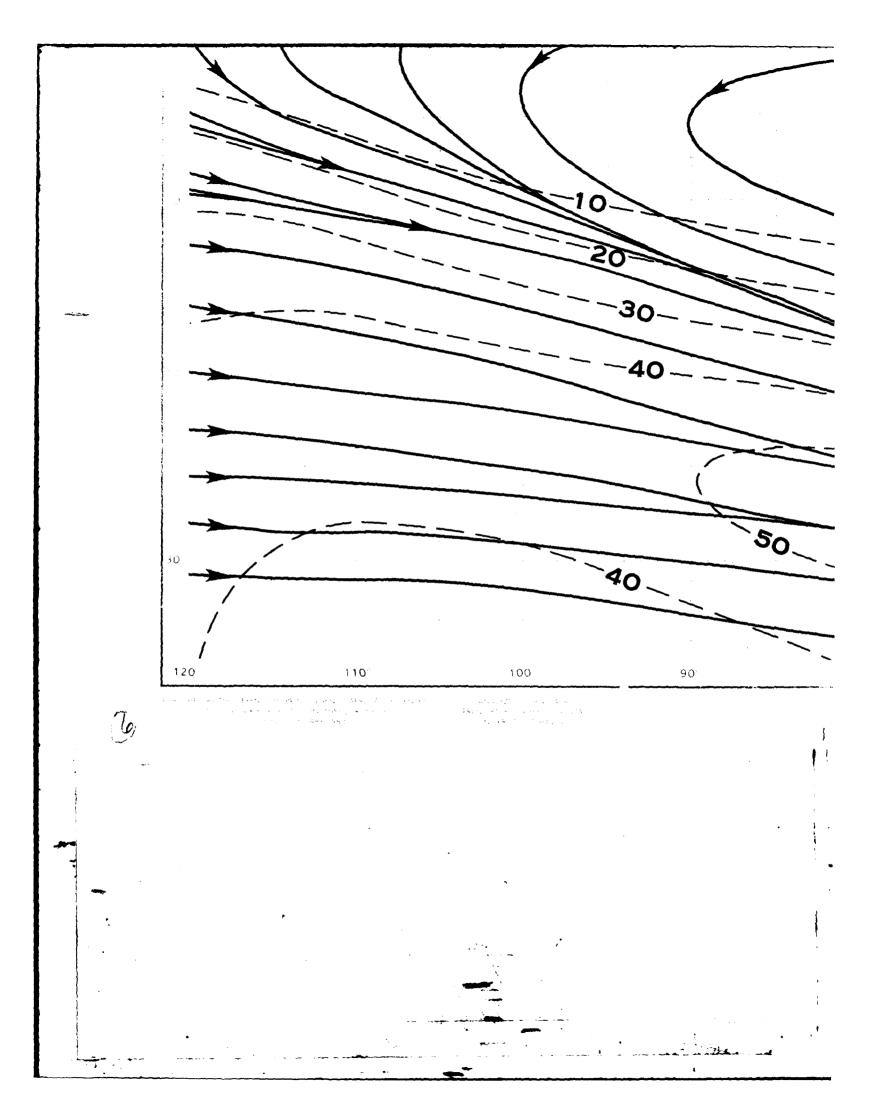




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## NDS over GLOBAL TROPICS - OCT





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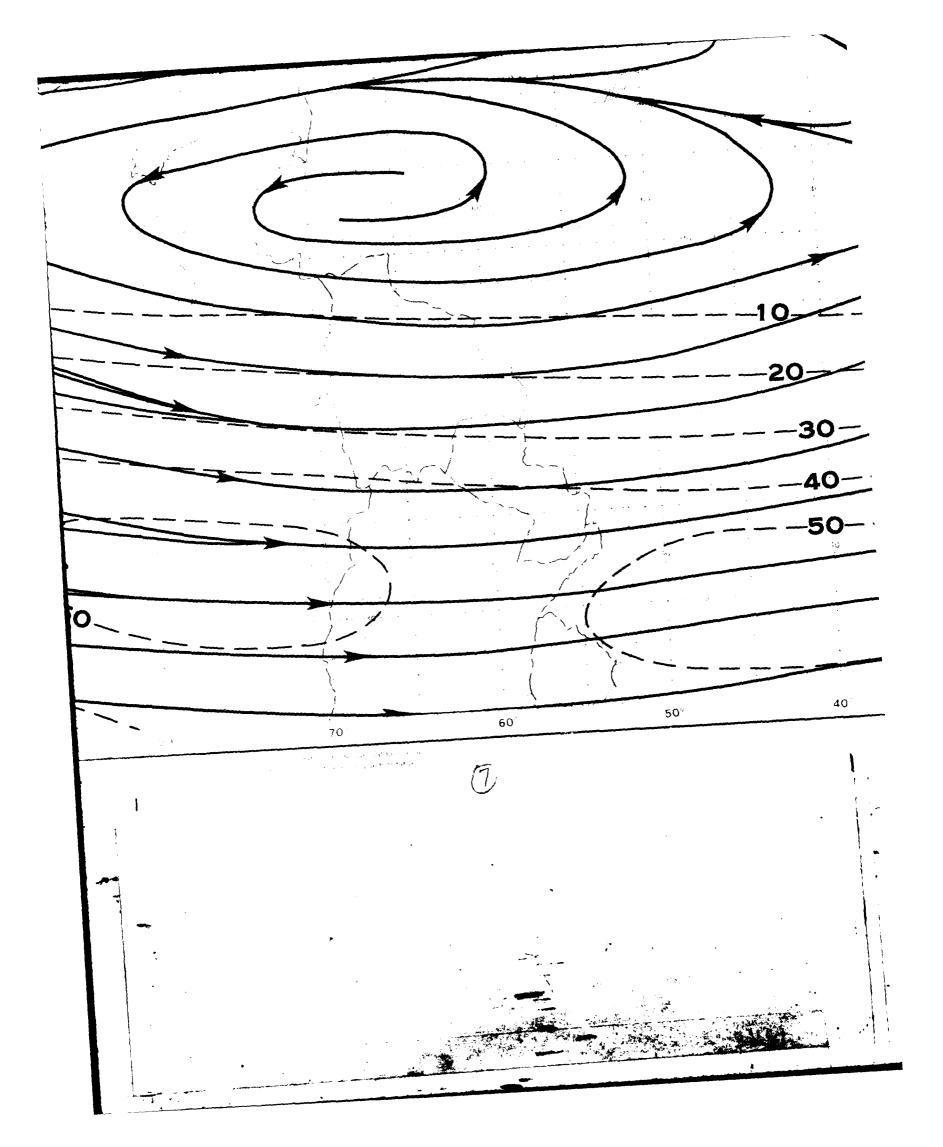
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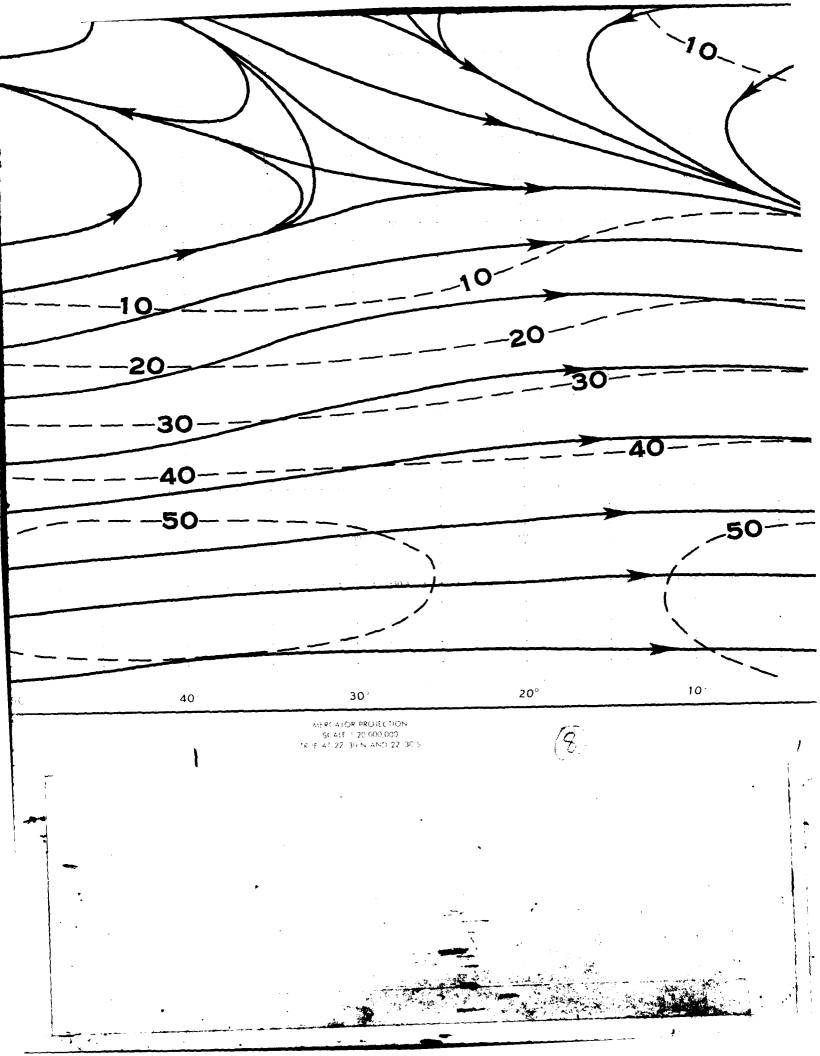


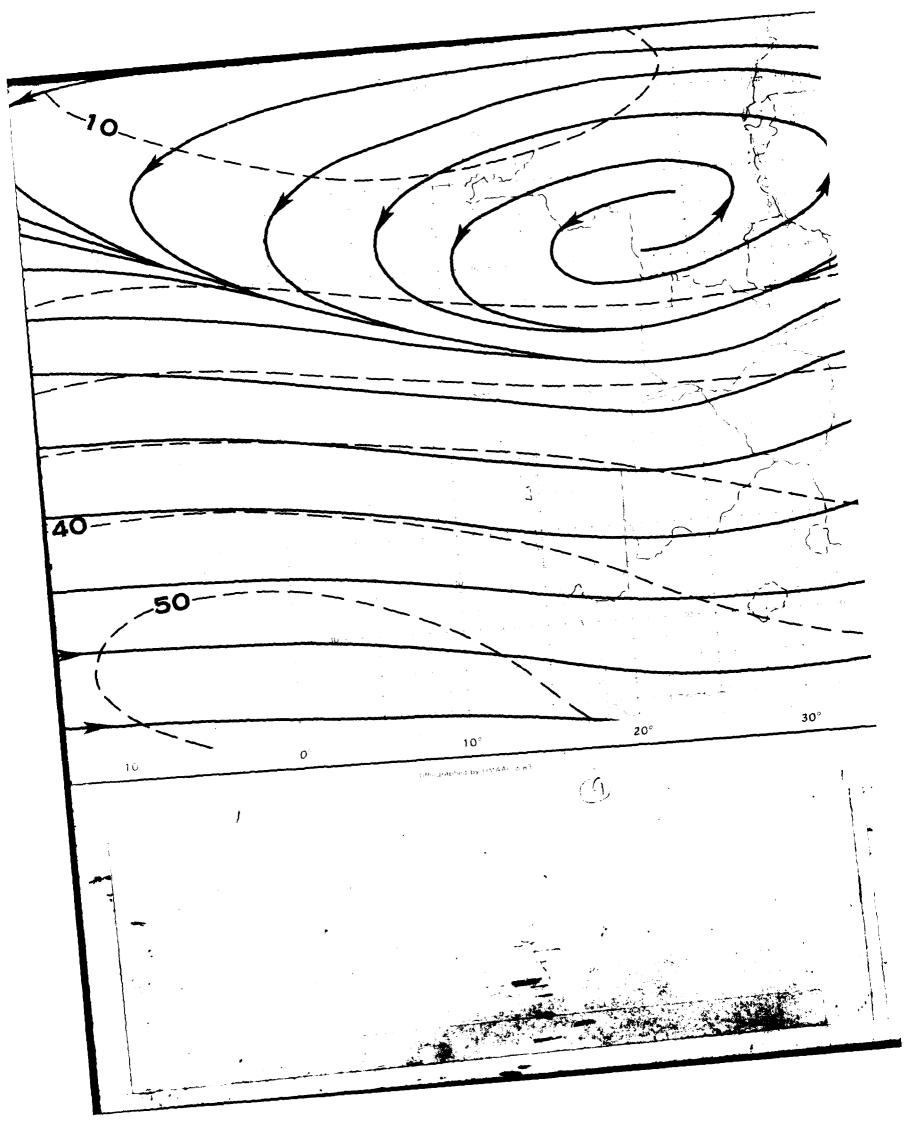
MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS - 1963 - A

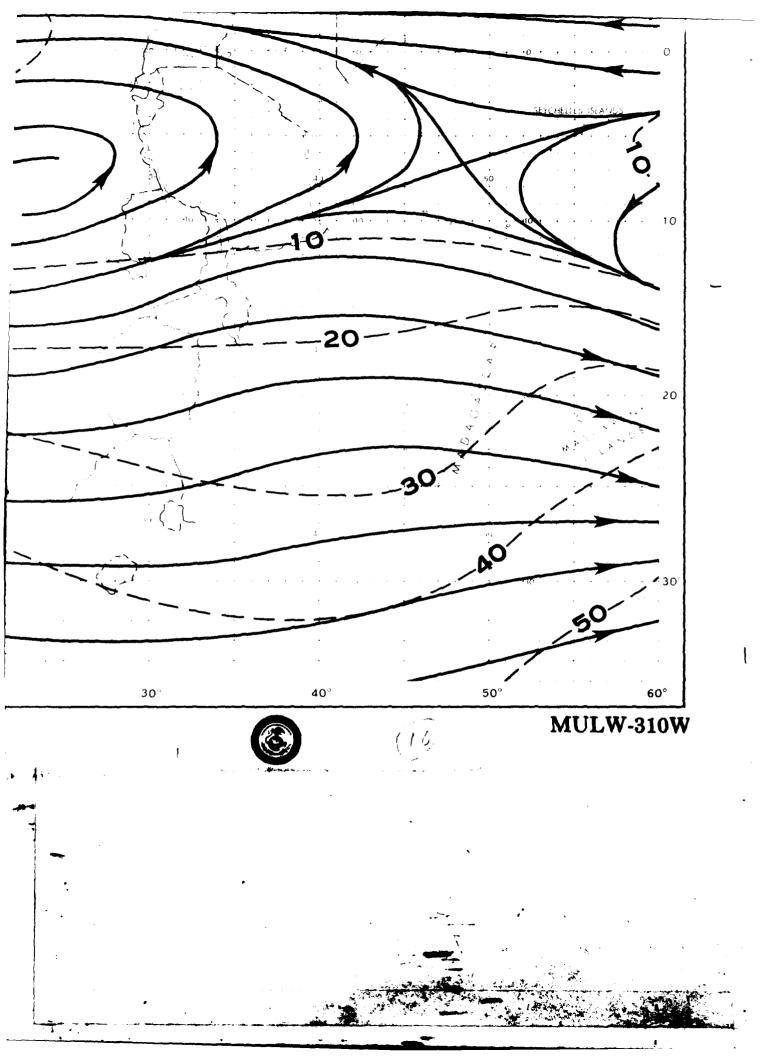
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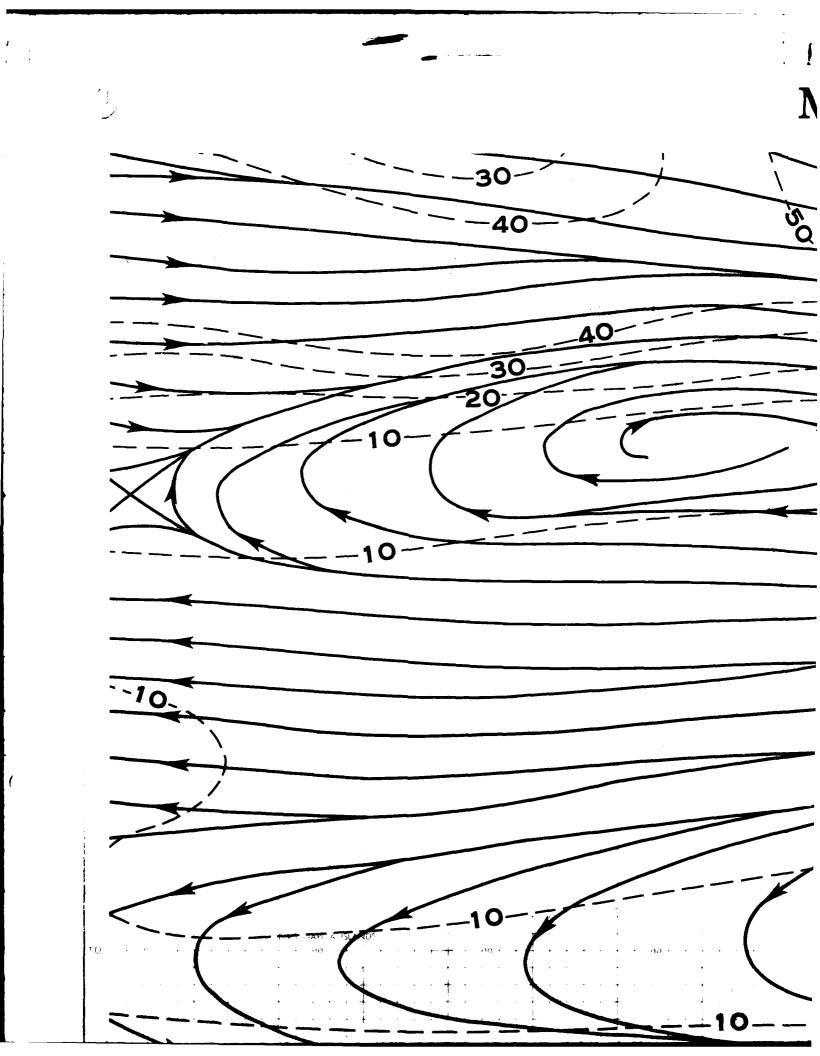
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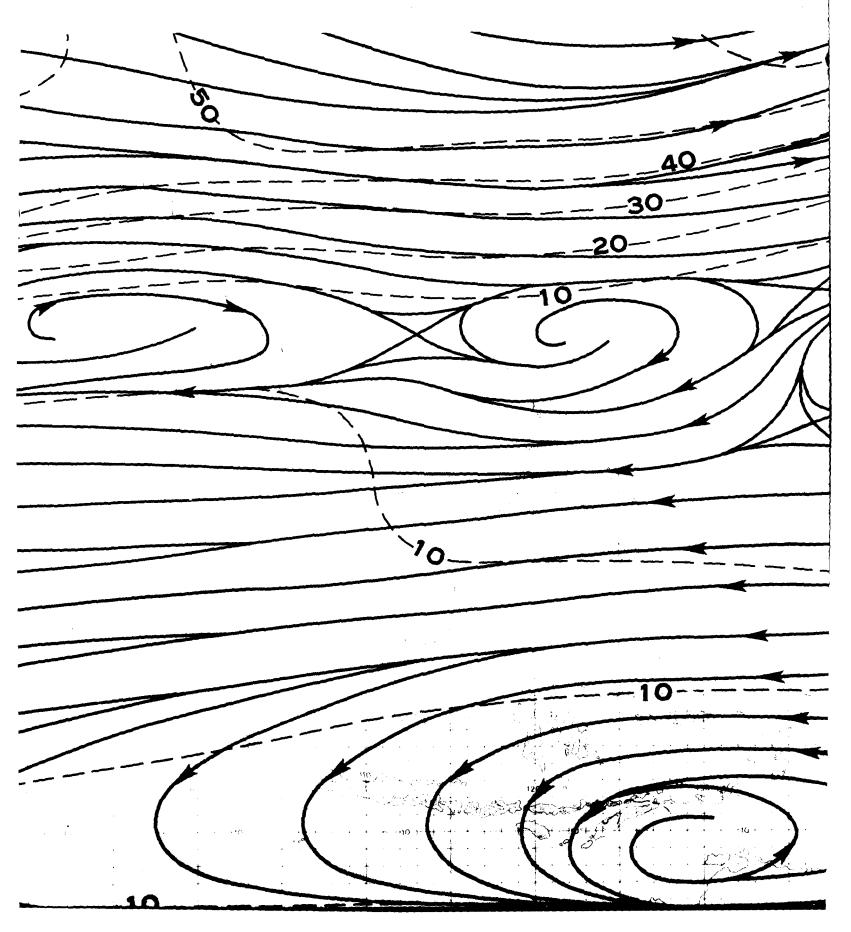




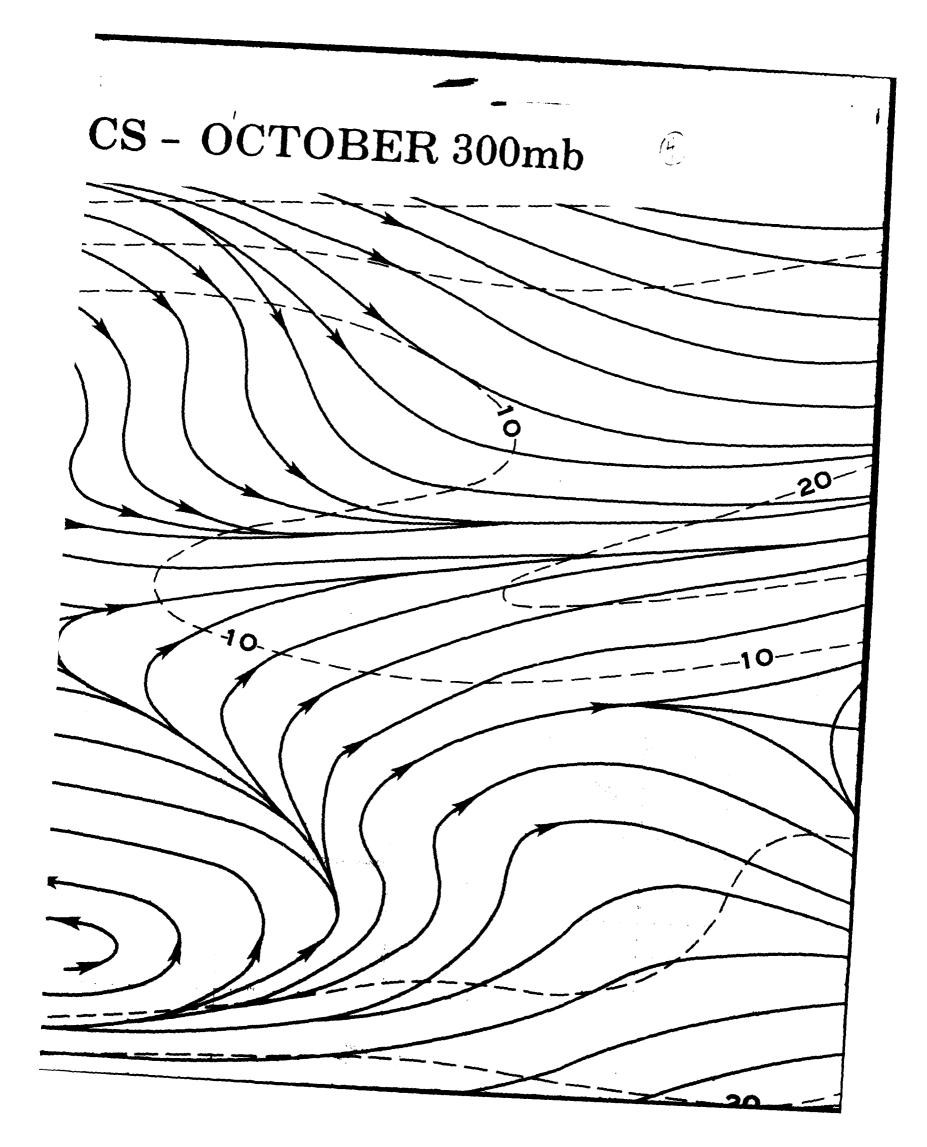


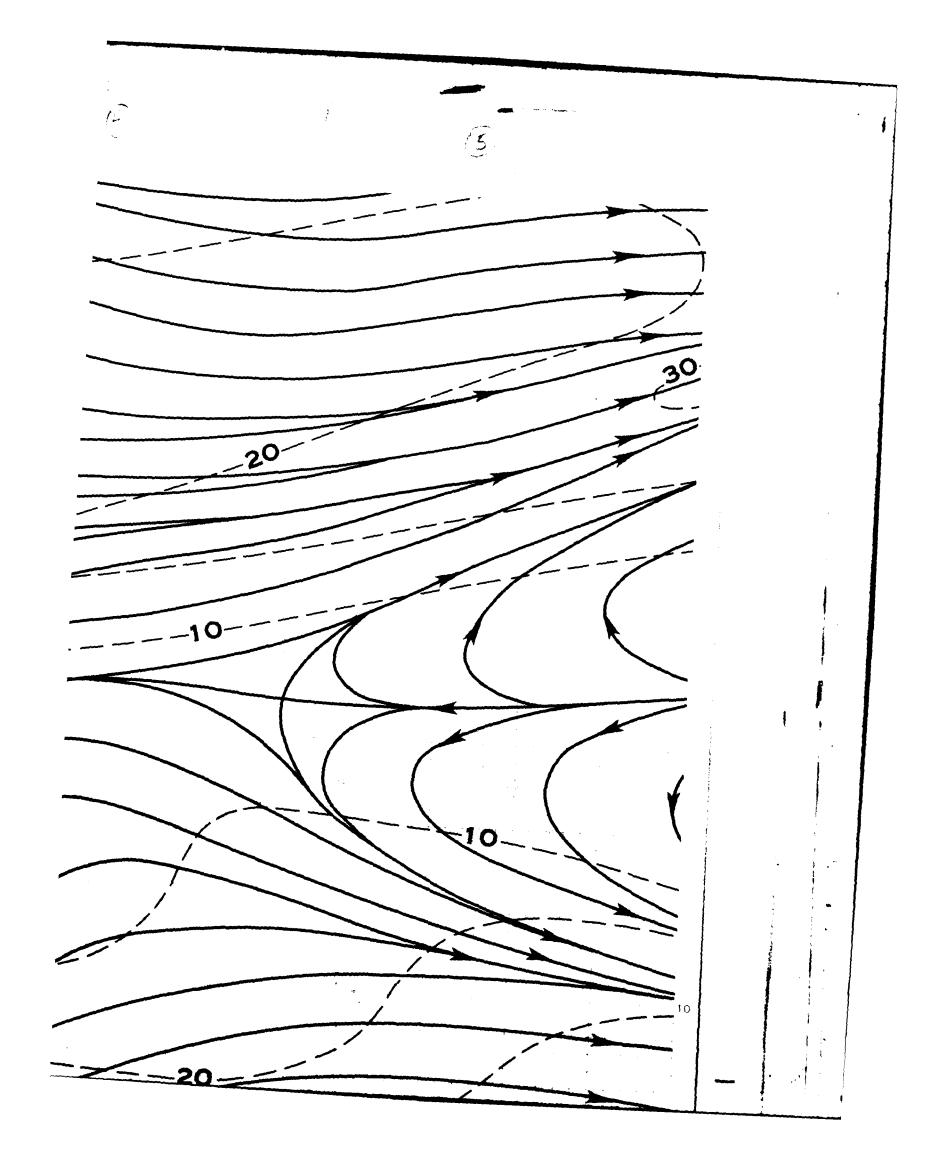


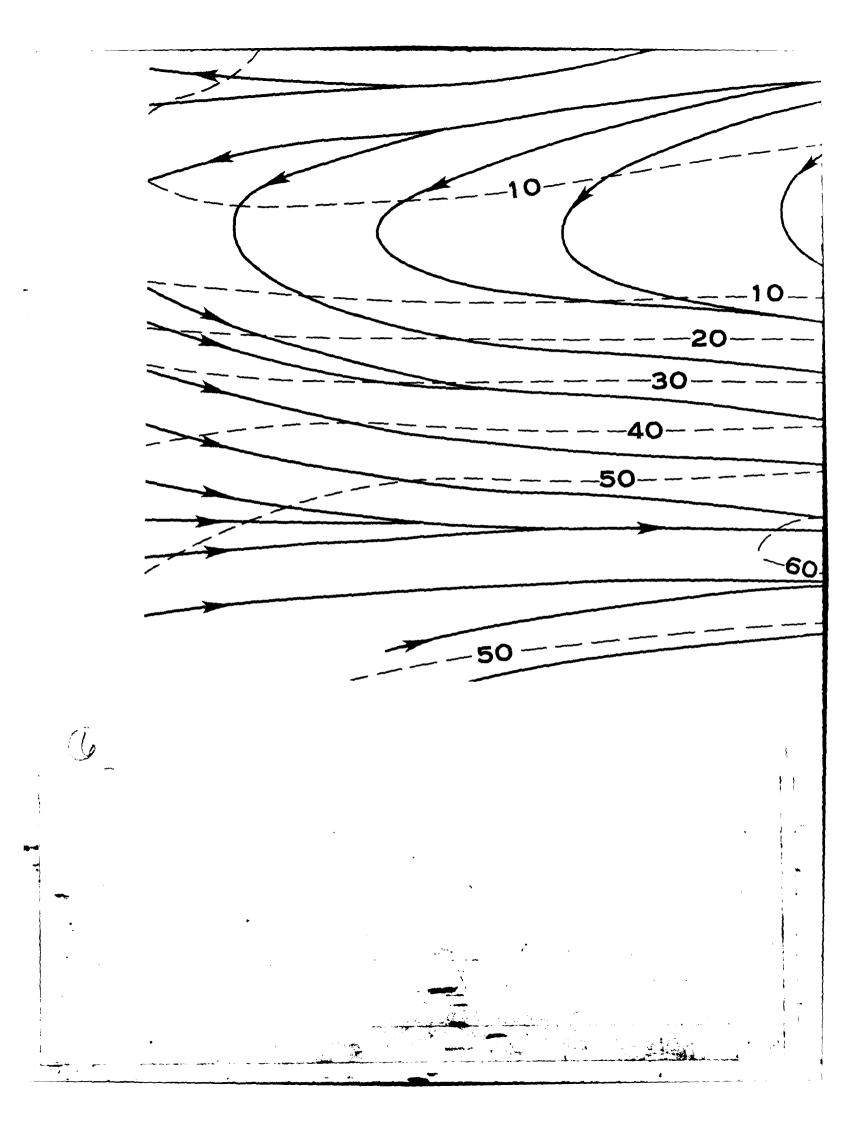
### MEAN UPPER LEVEL®WIN

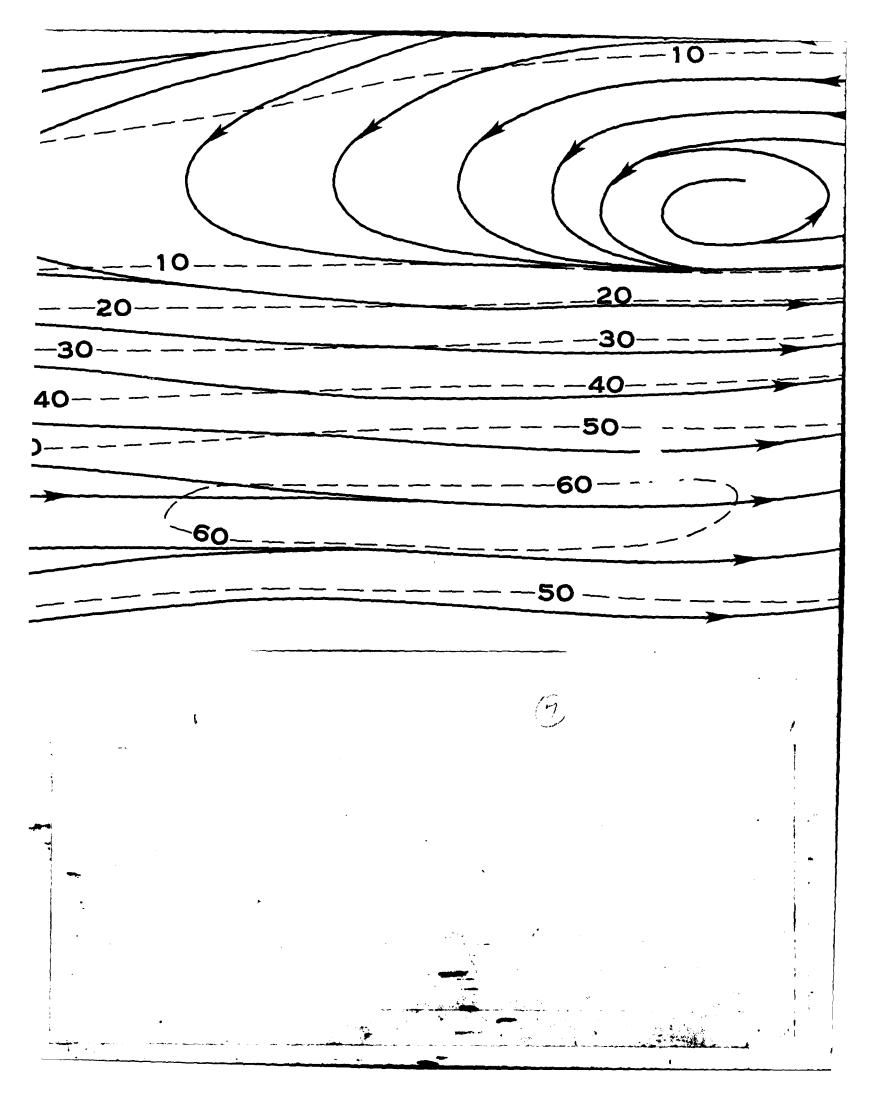


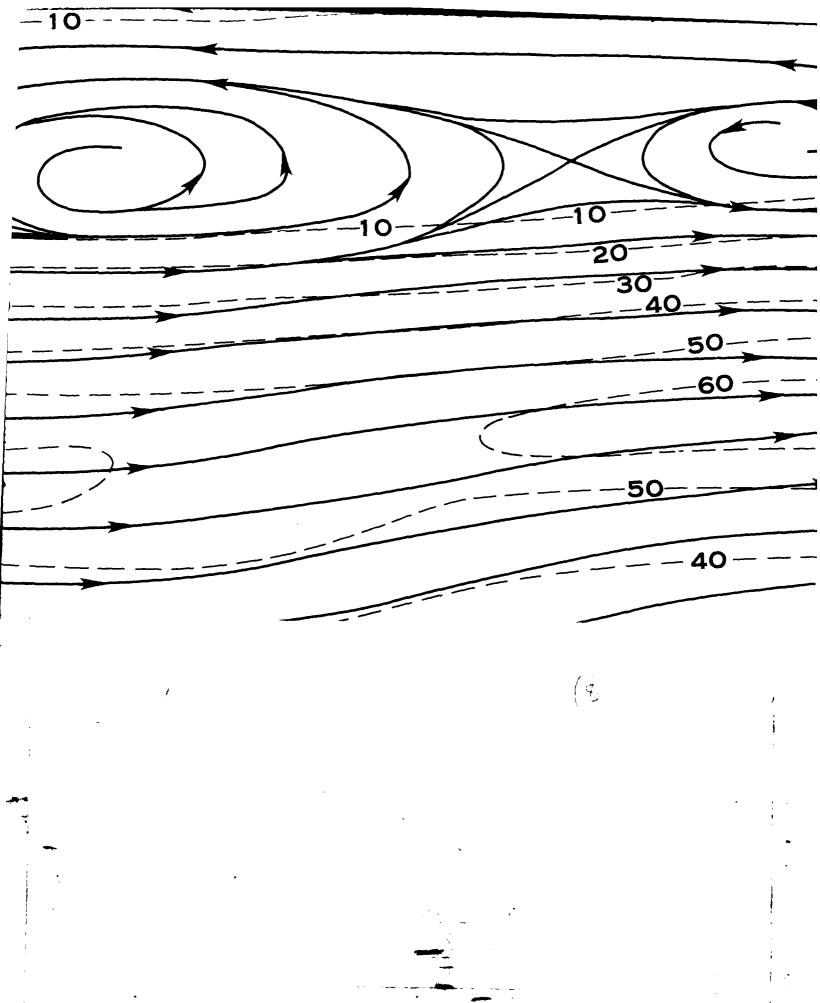
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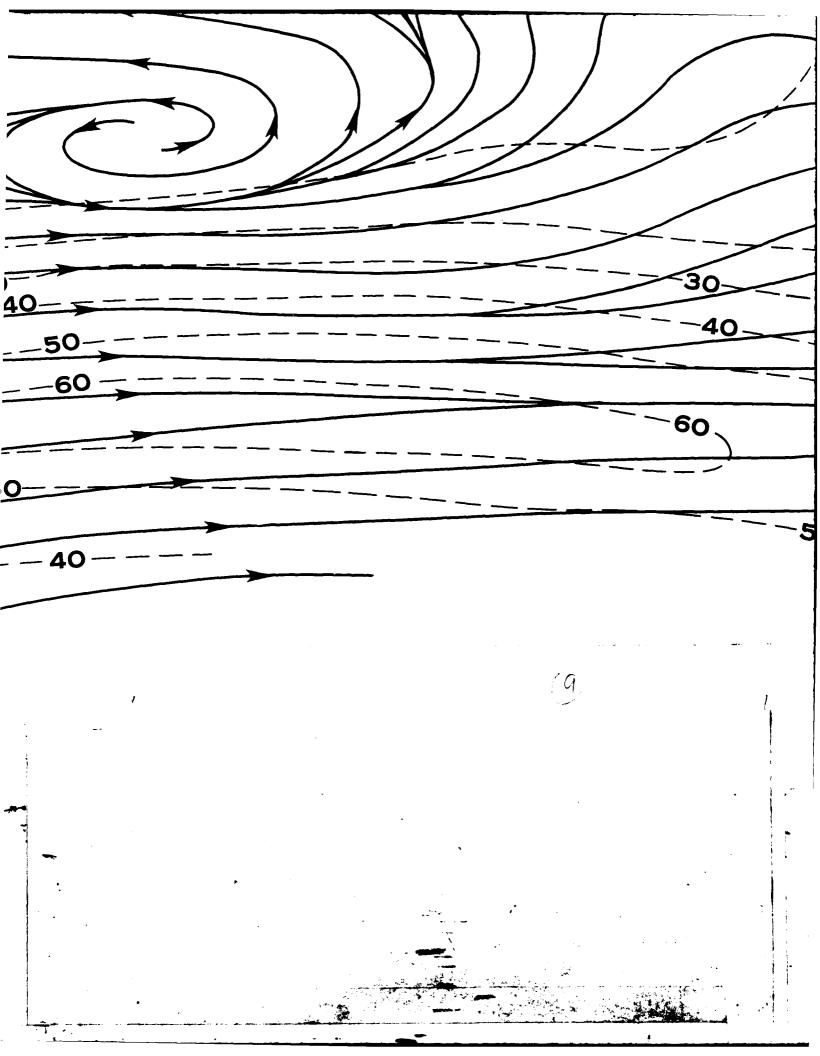


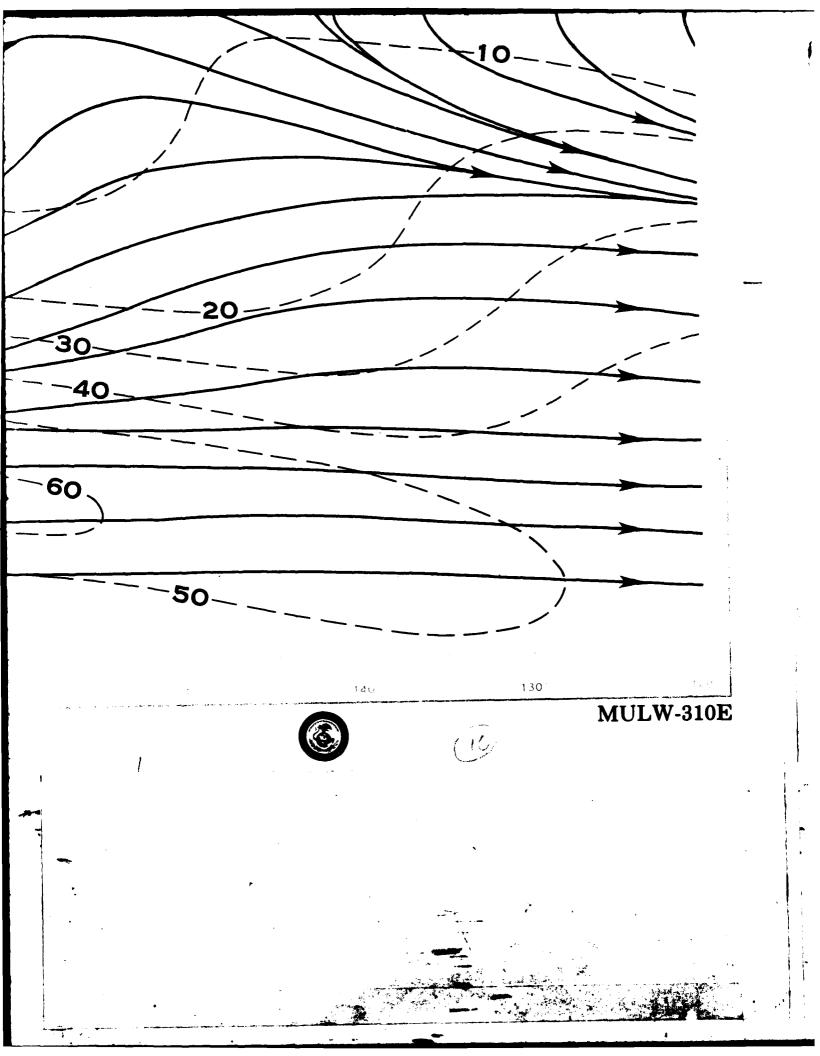








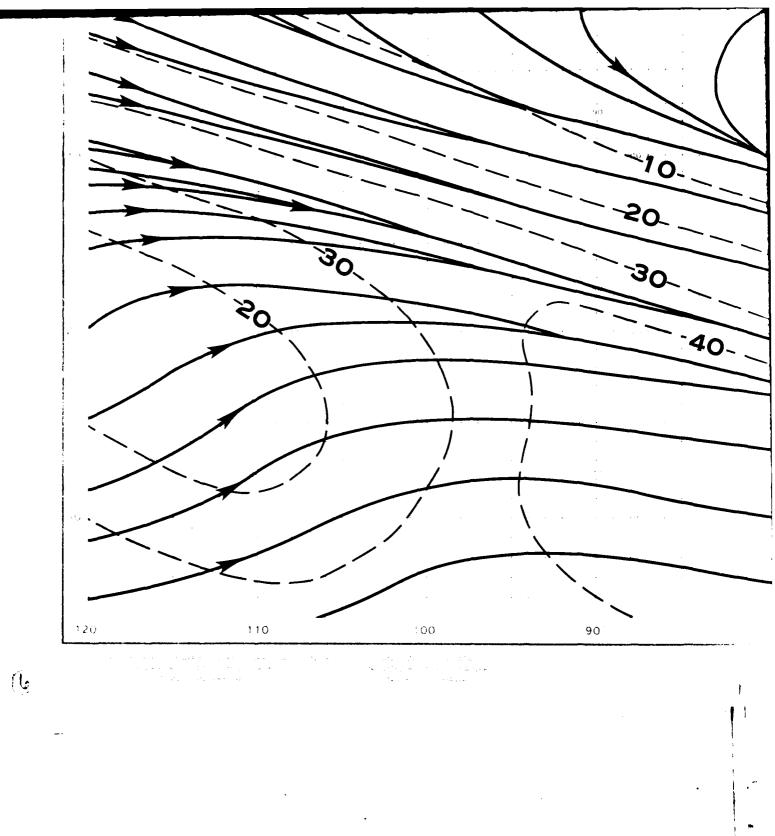


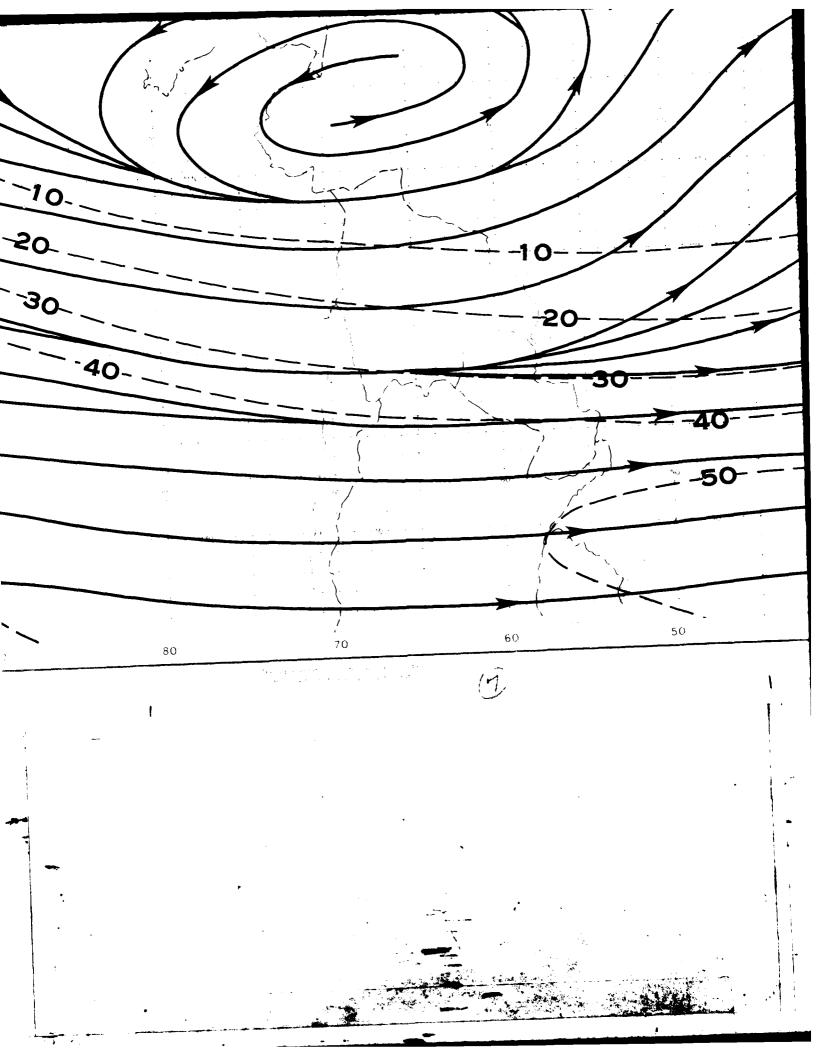


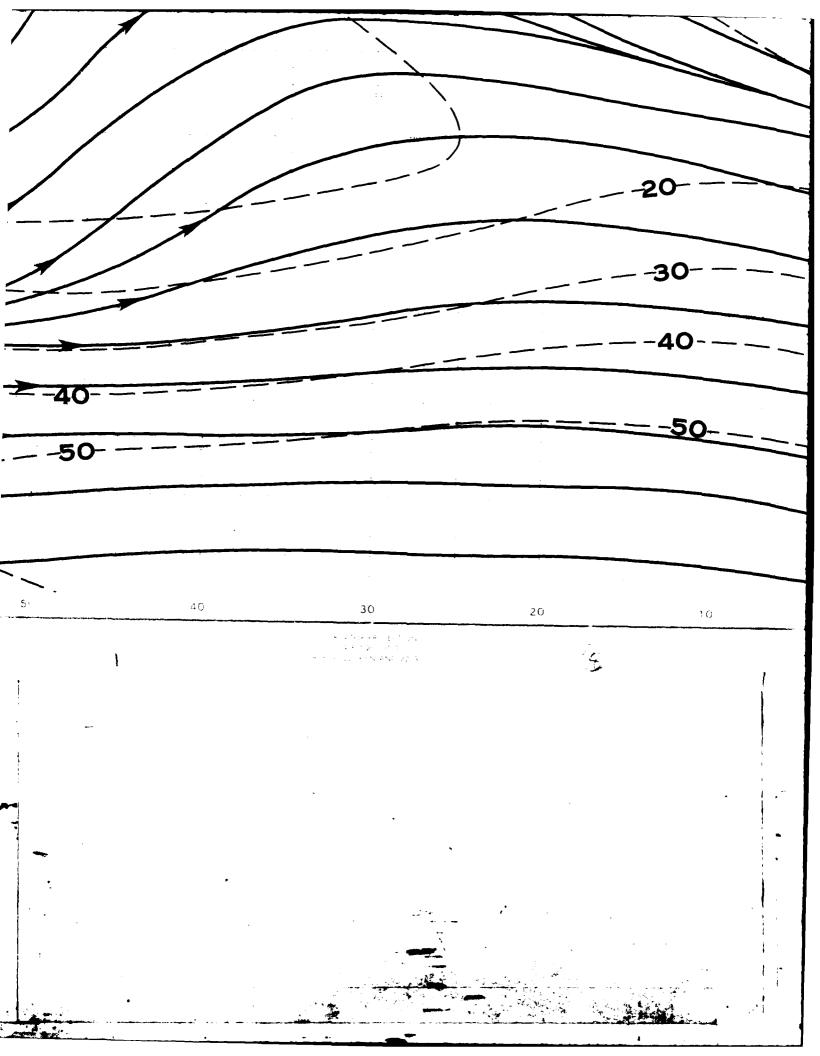
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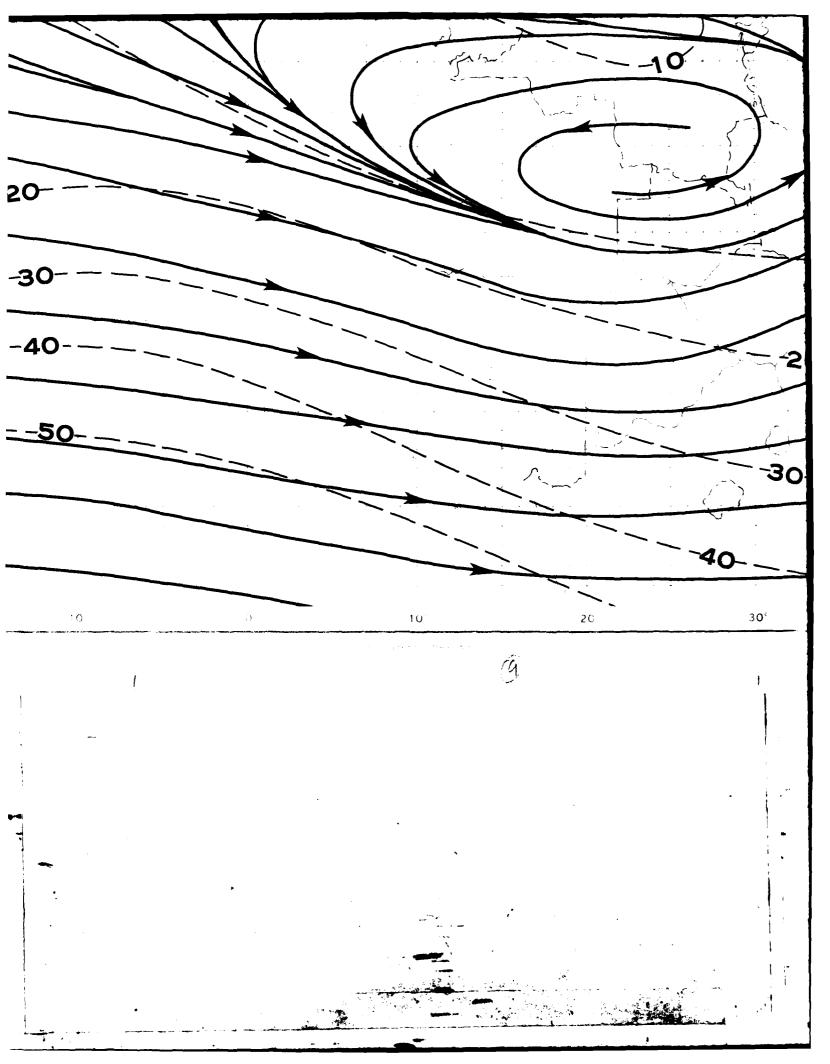
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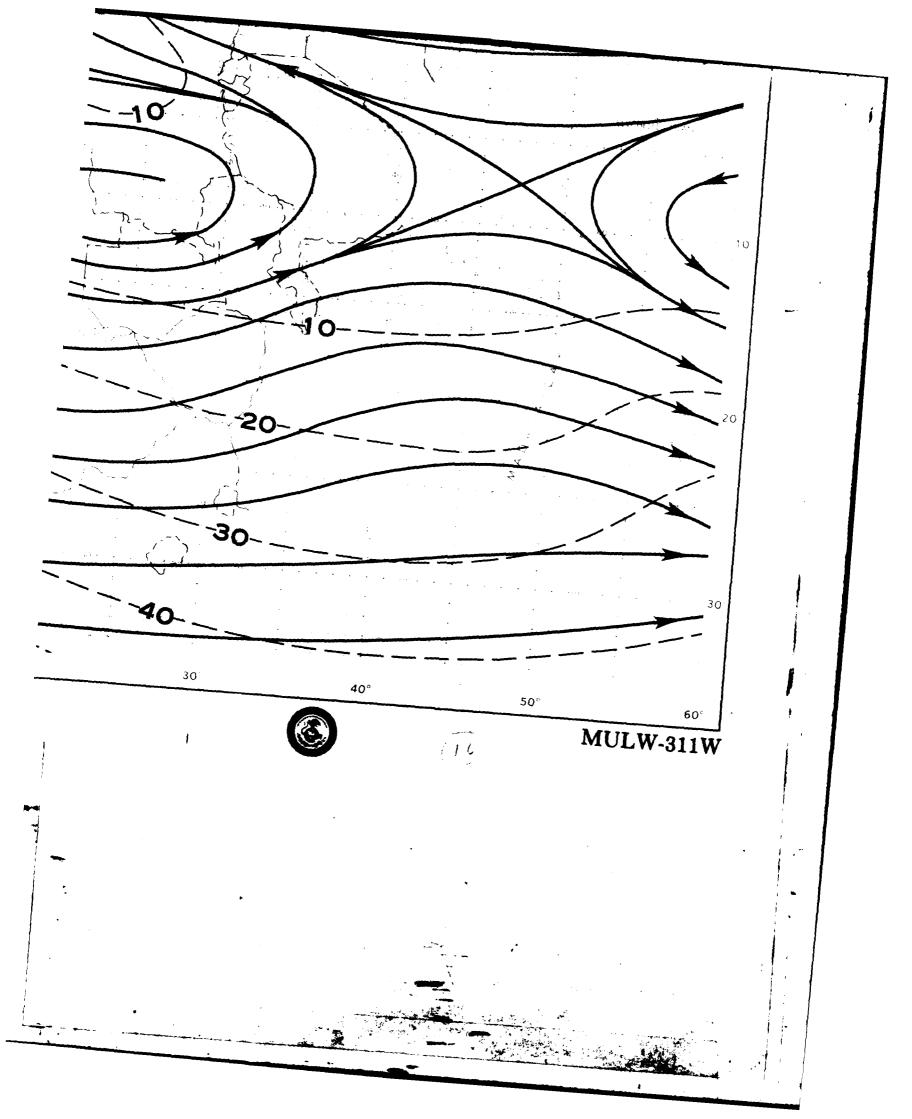
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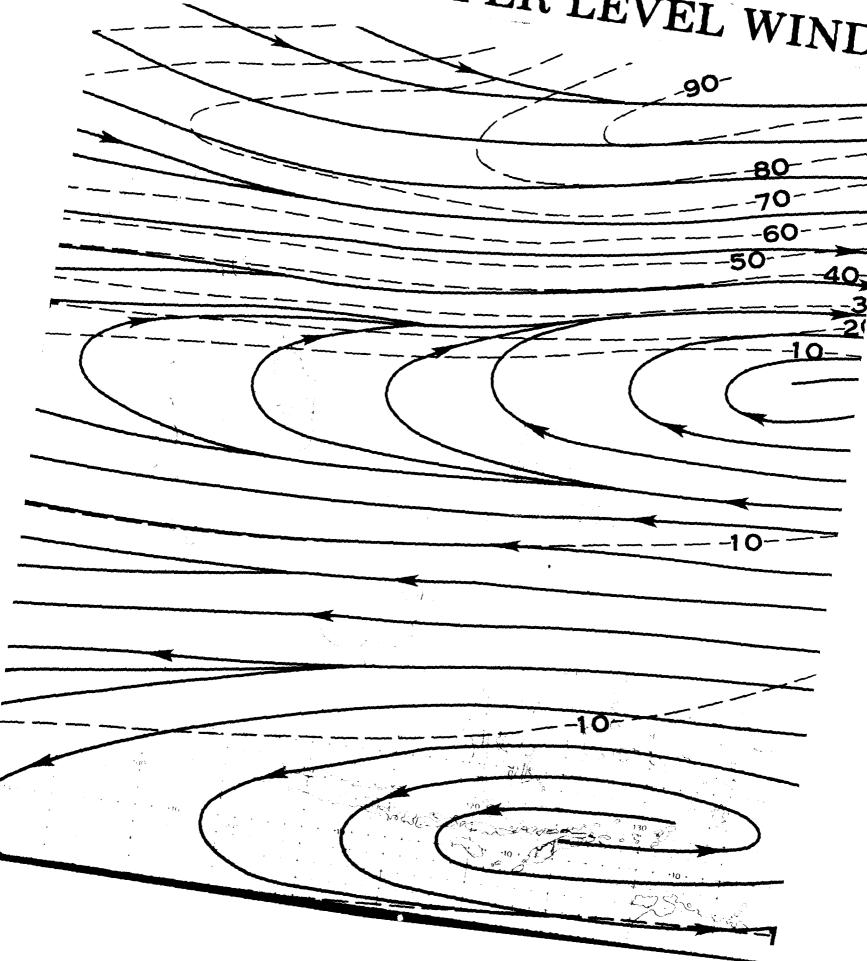




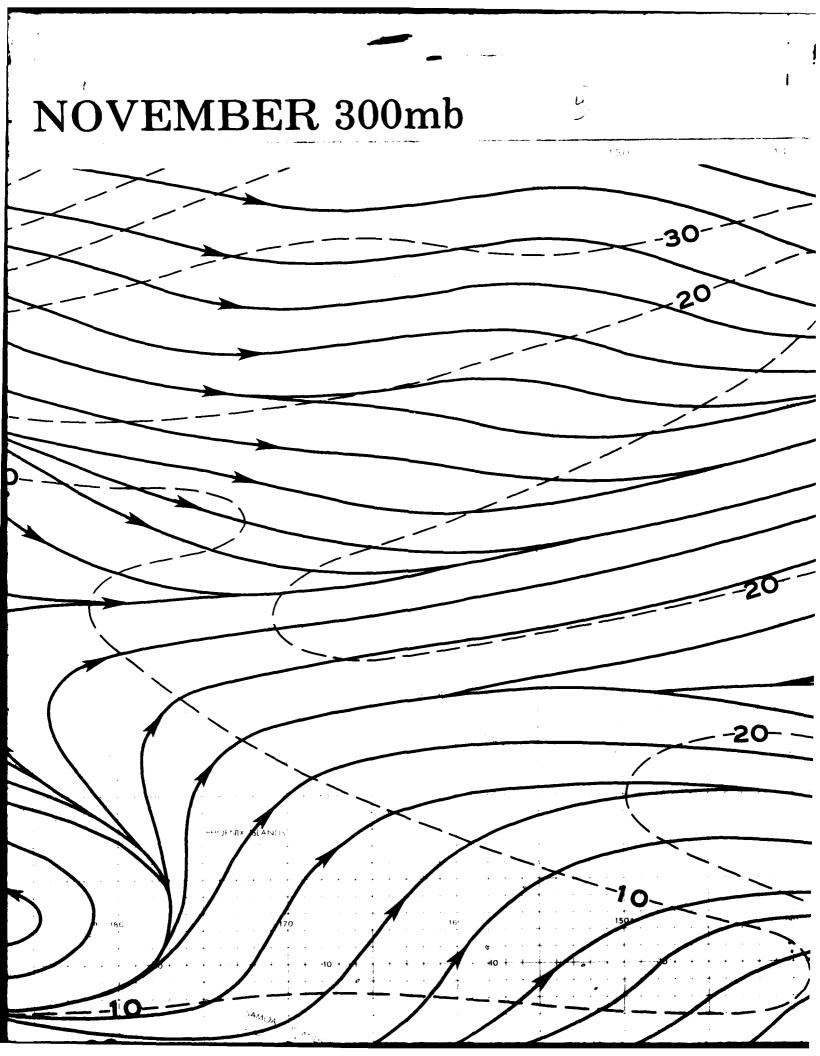




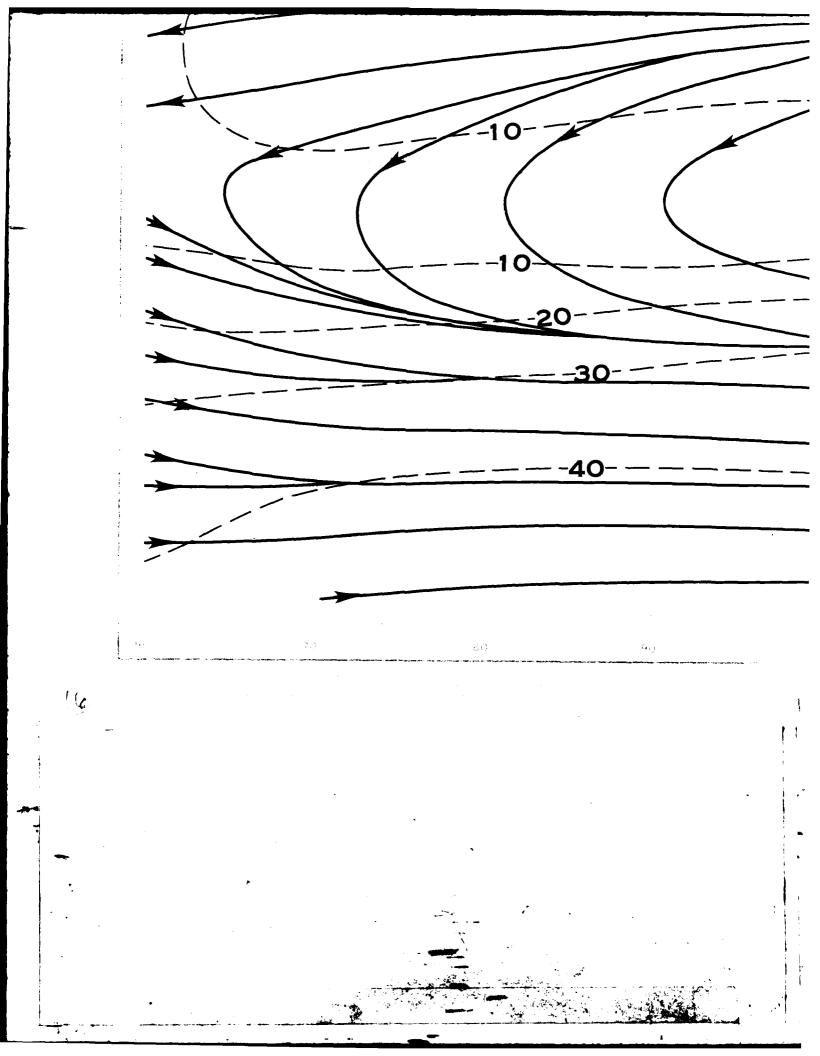
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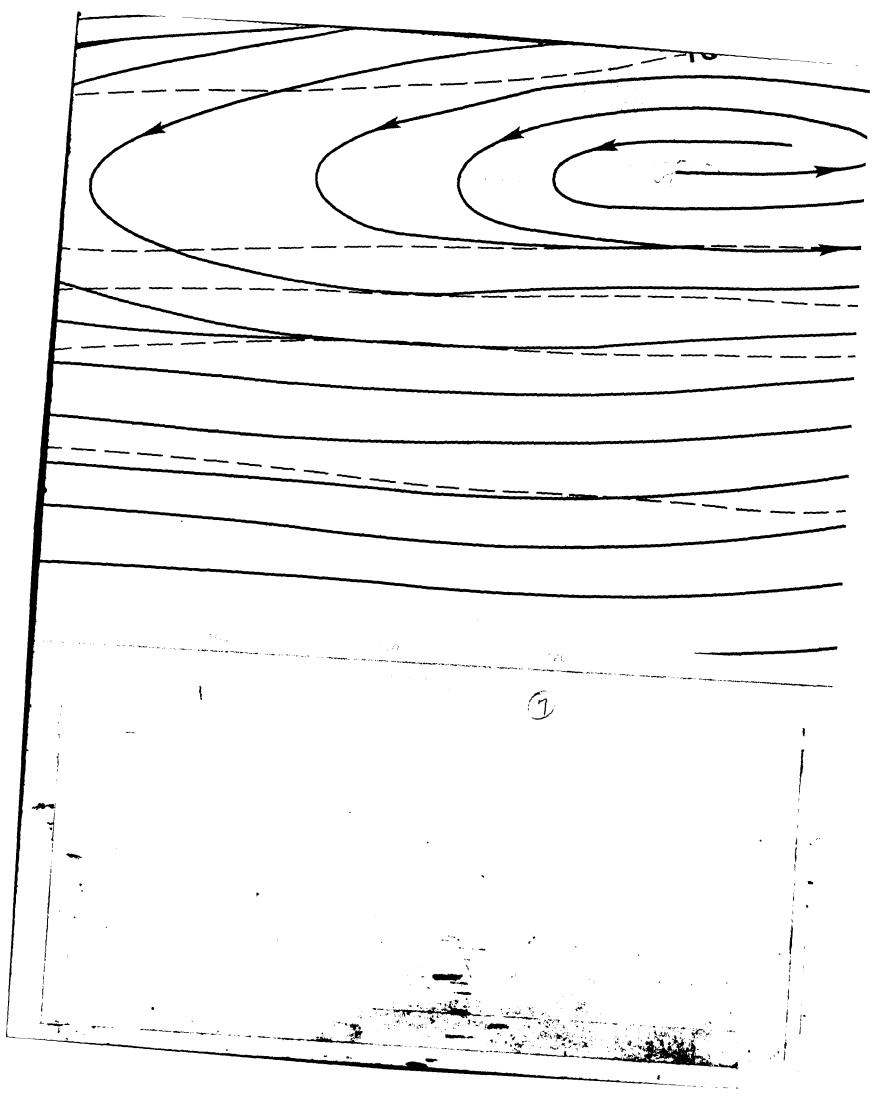


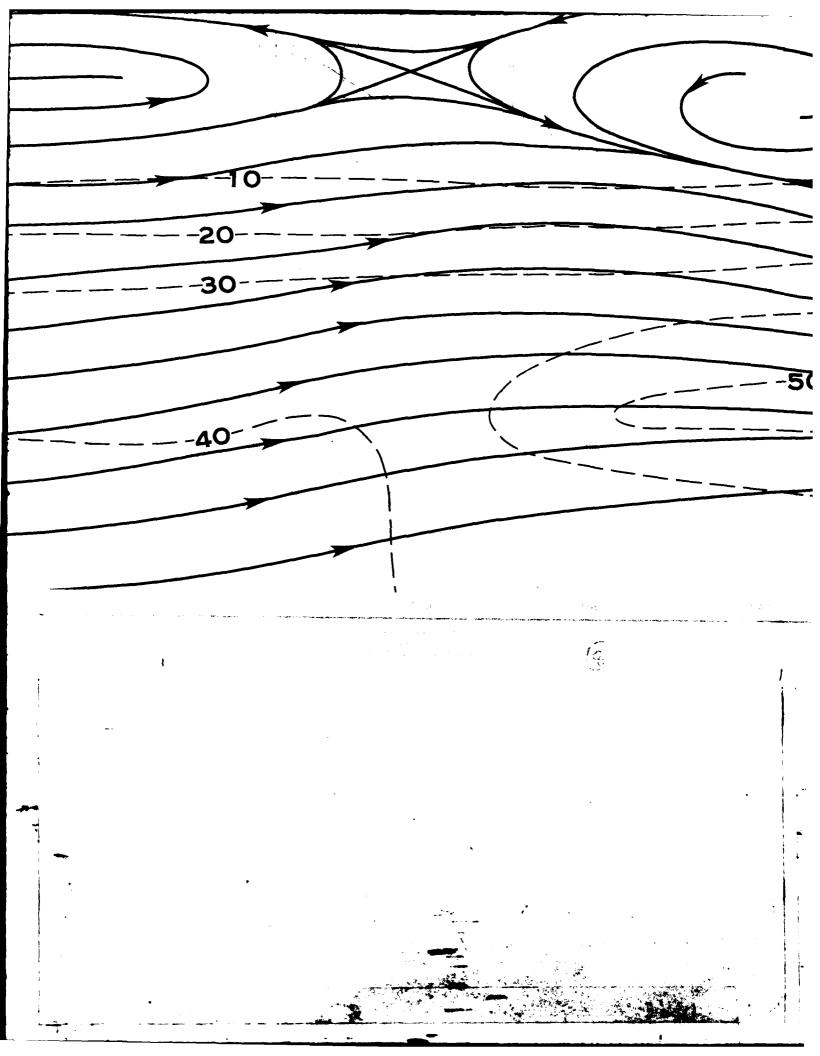
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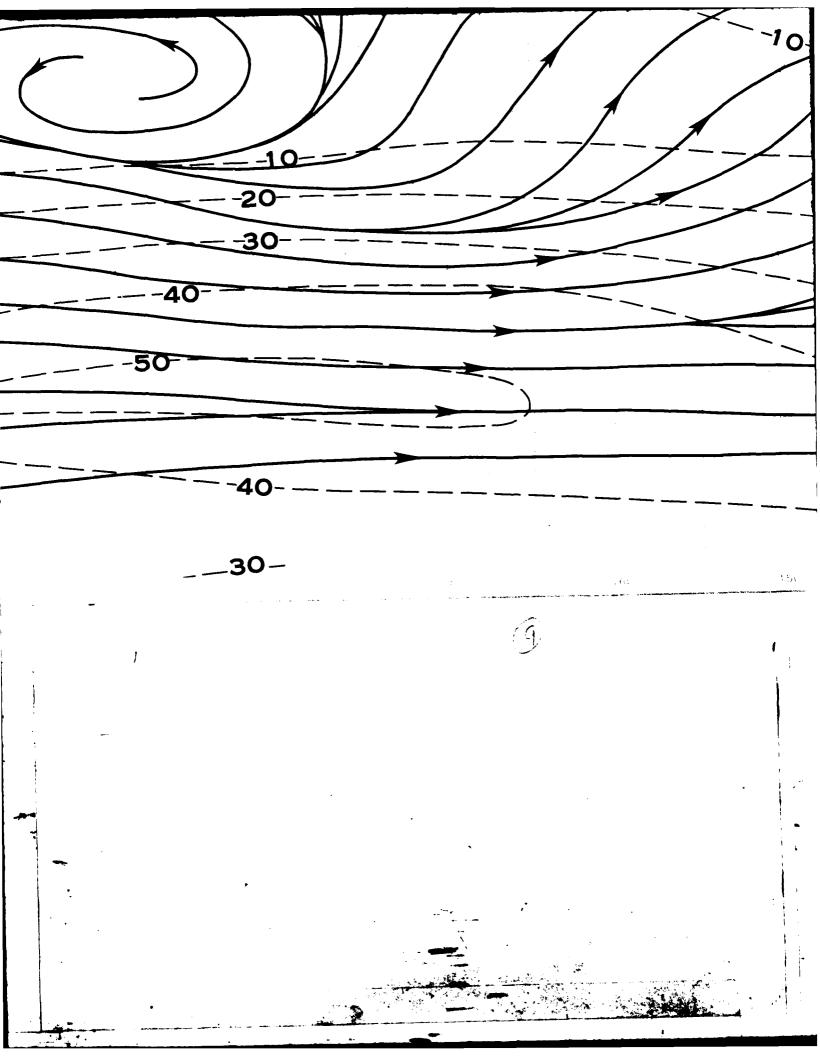


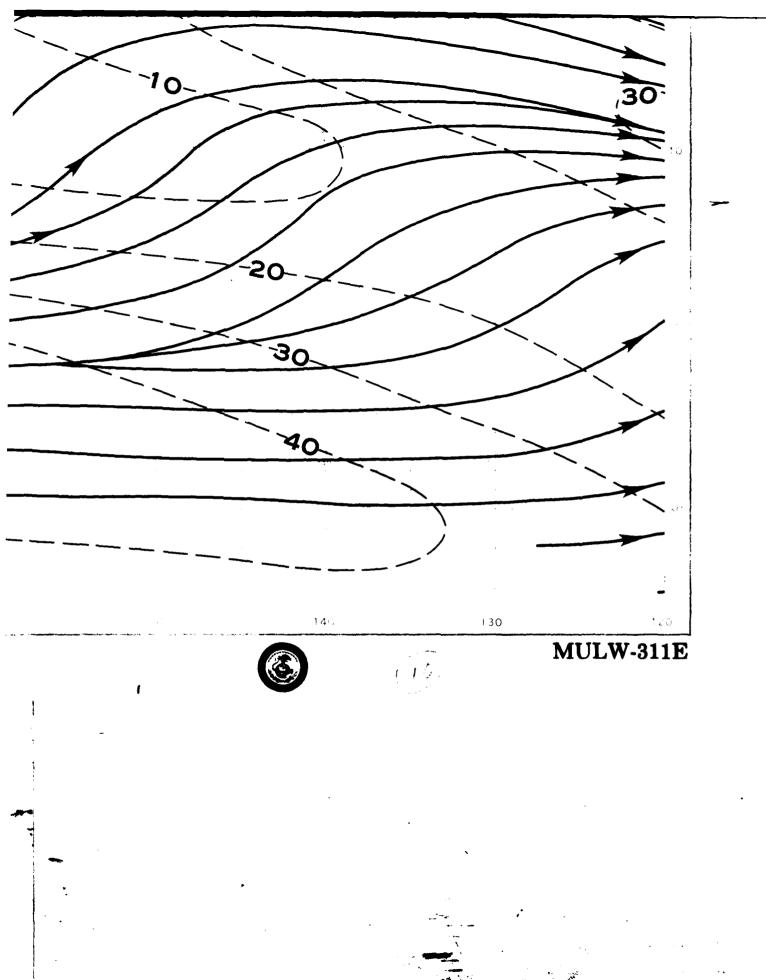
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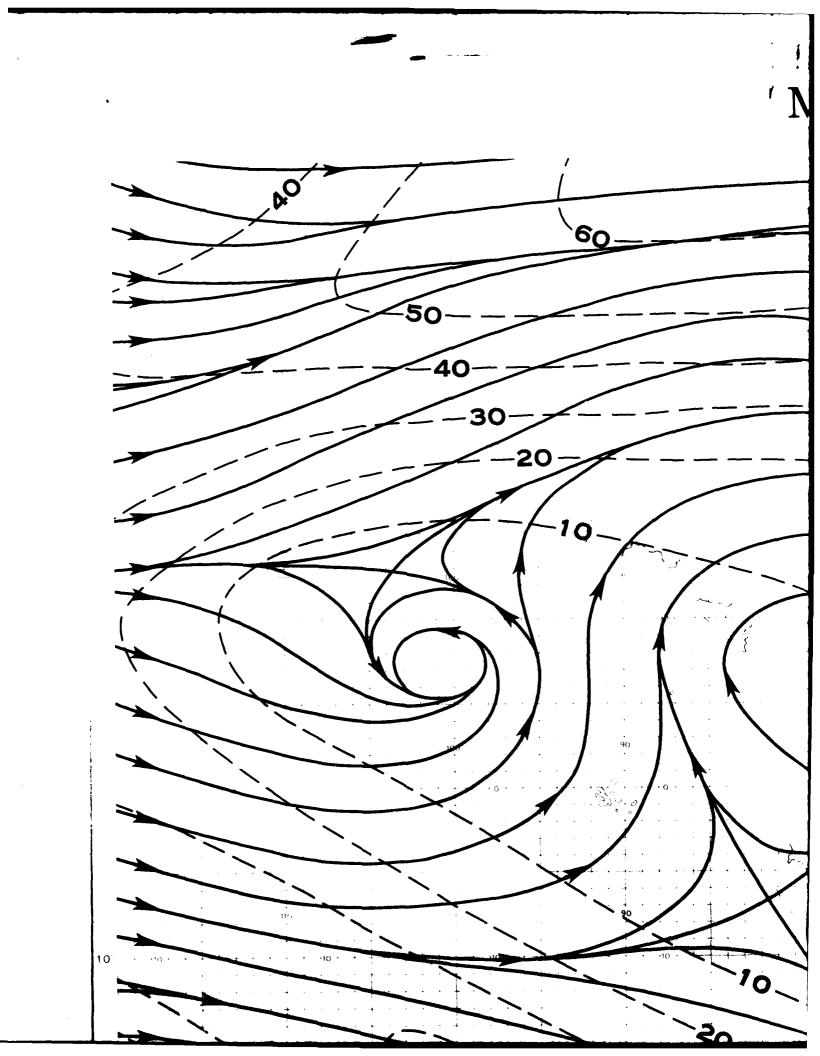








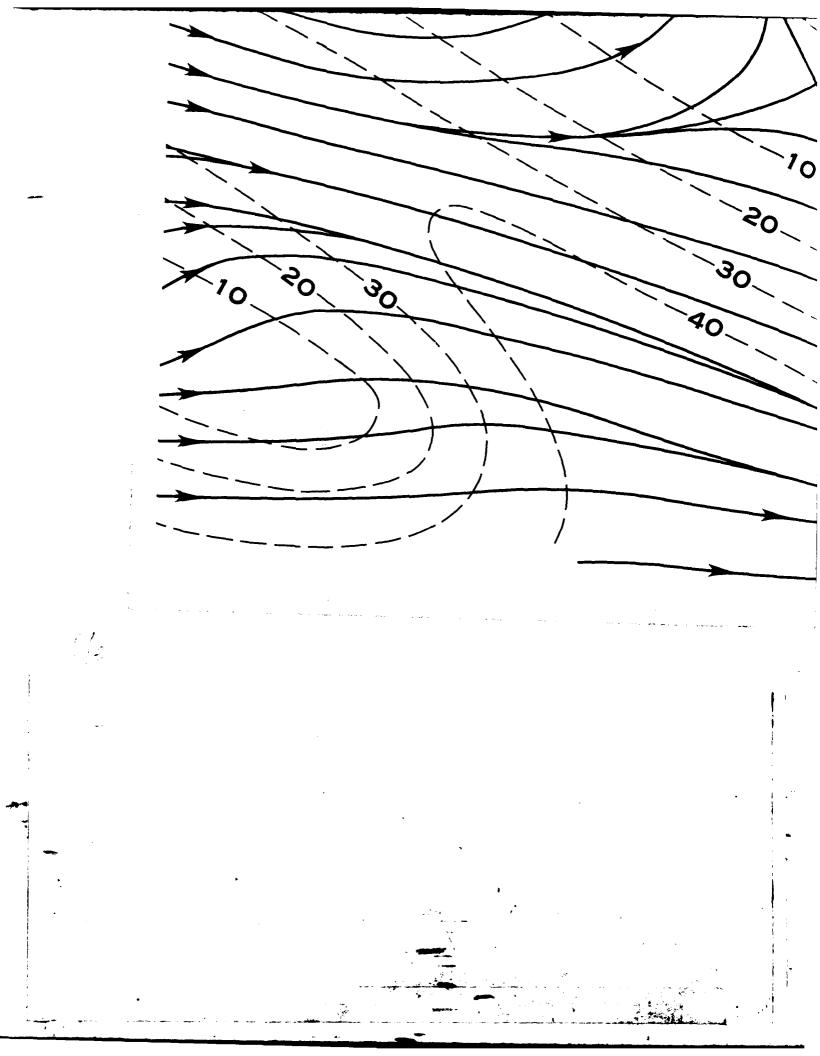


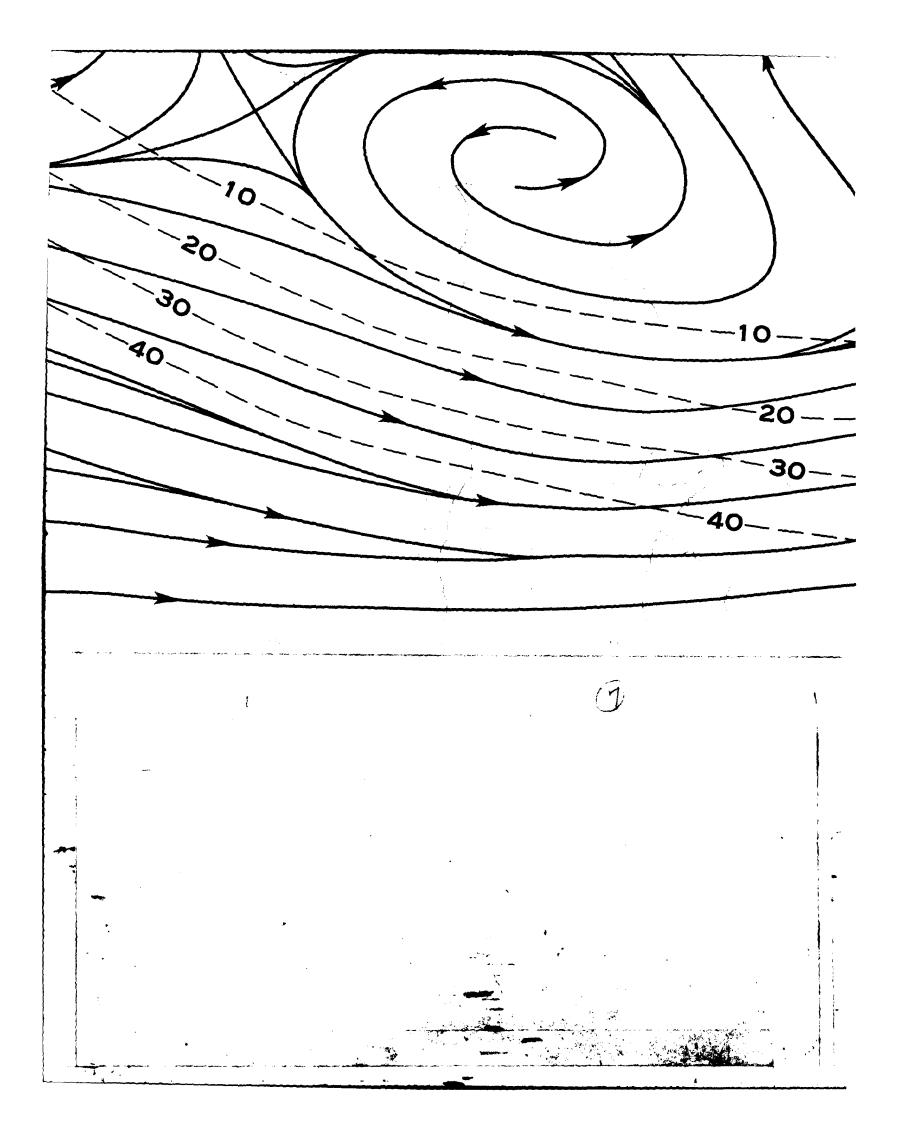


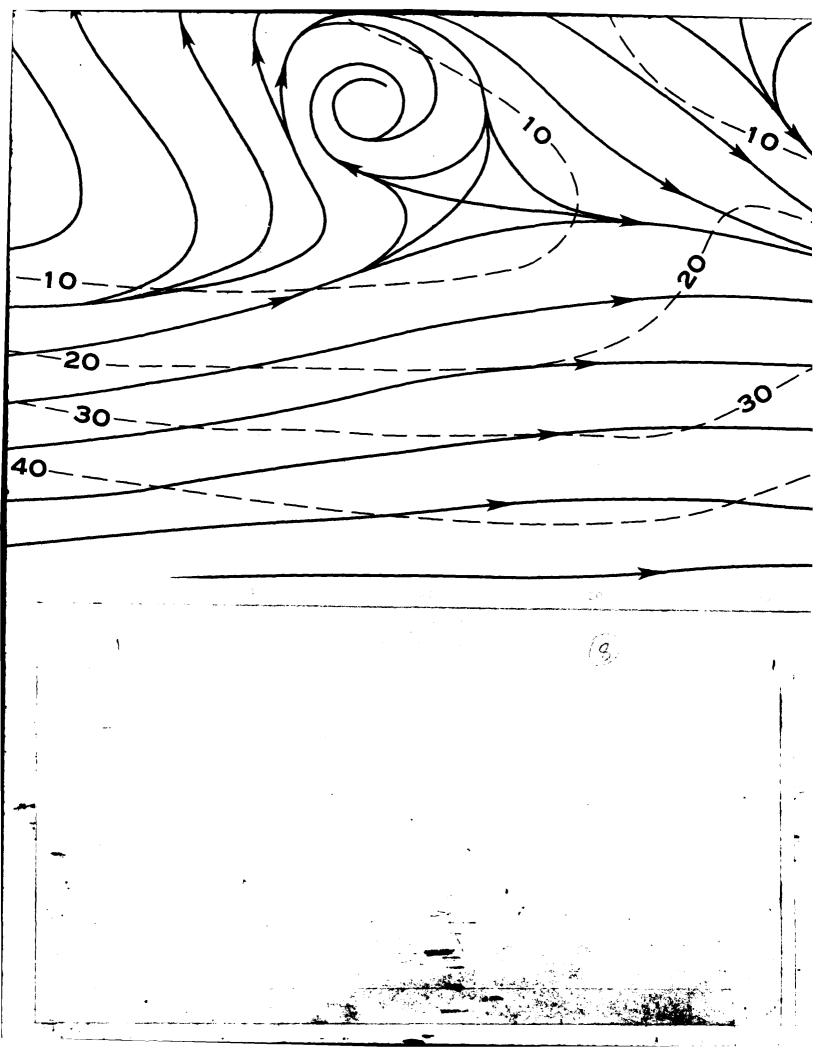
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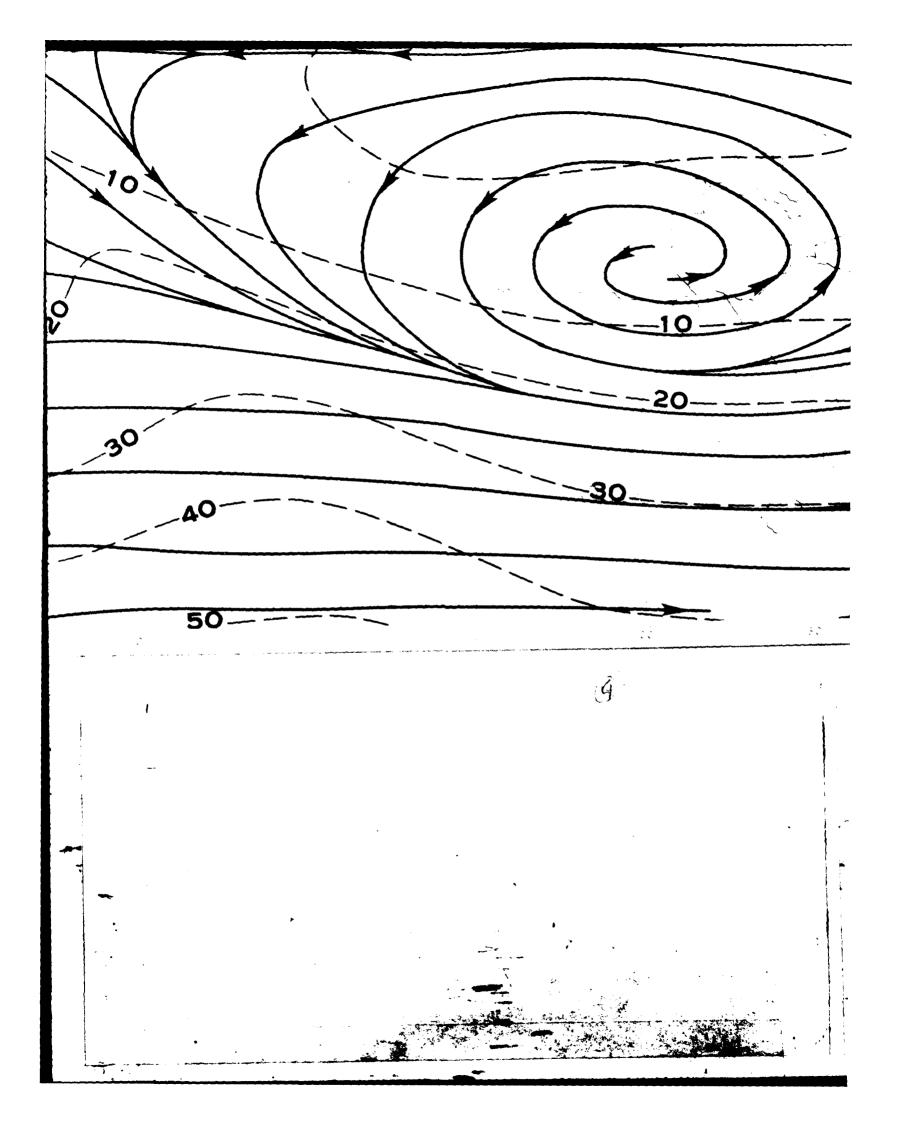
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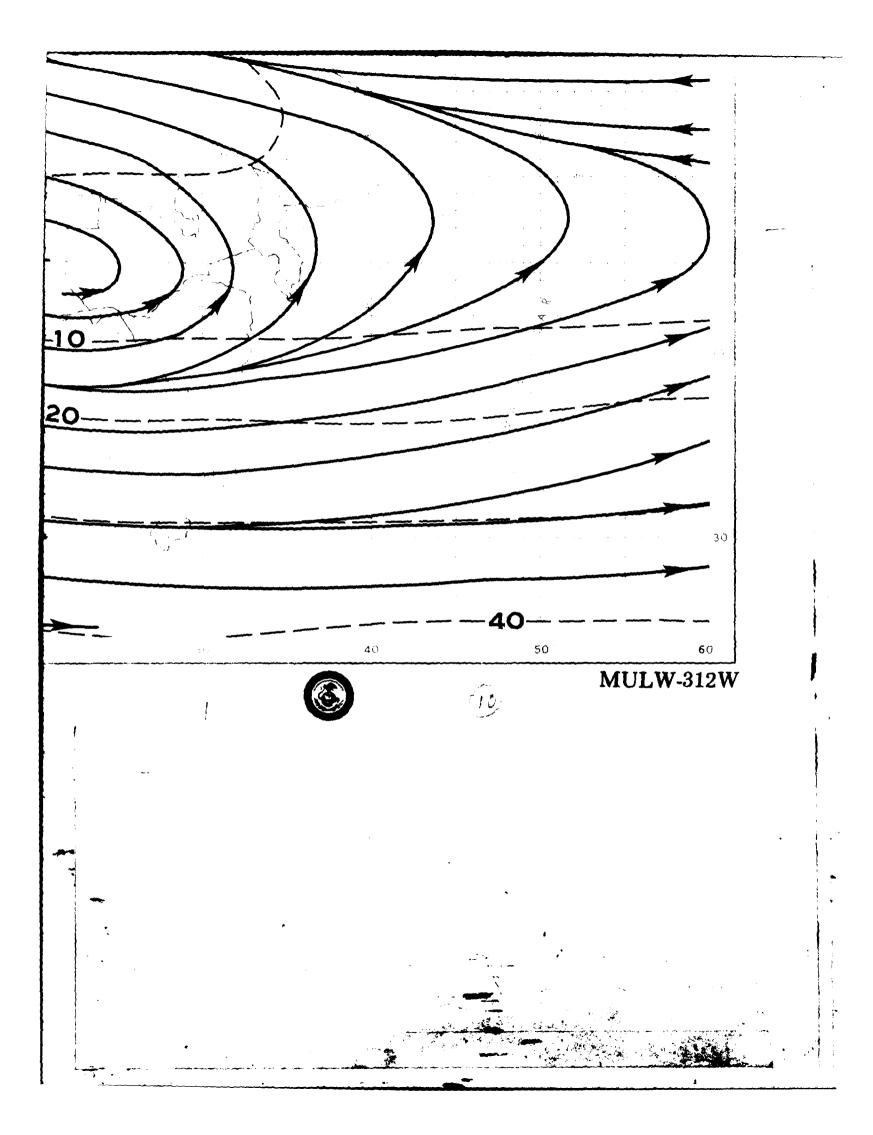
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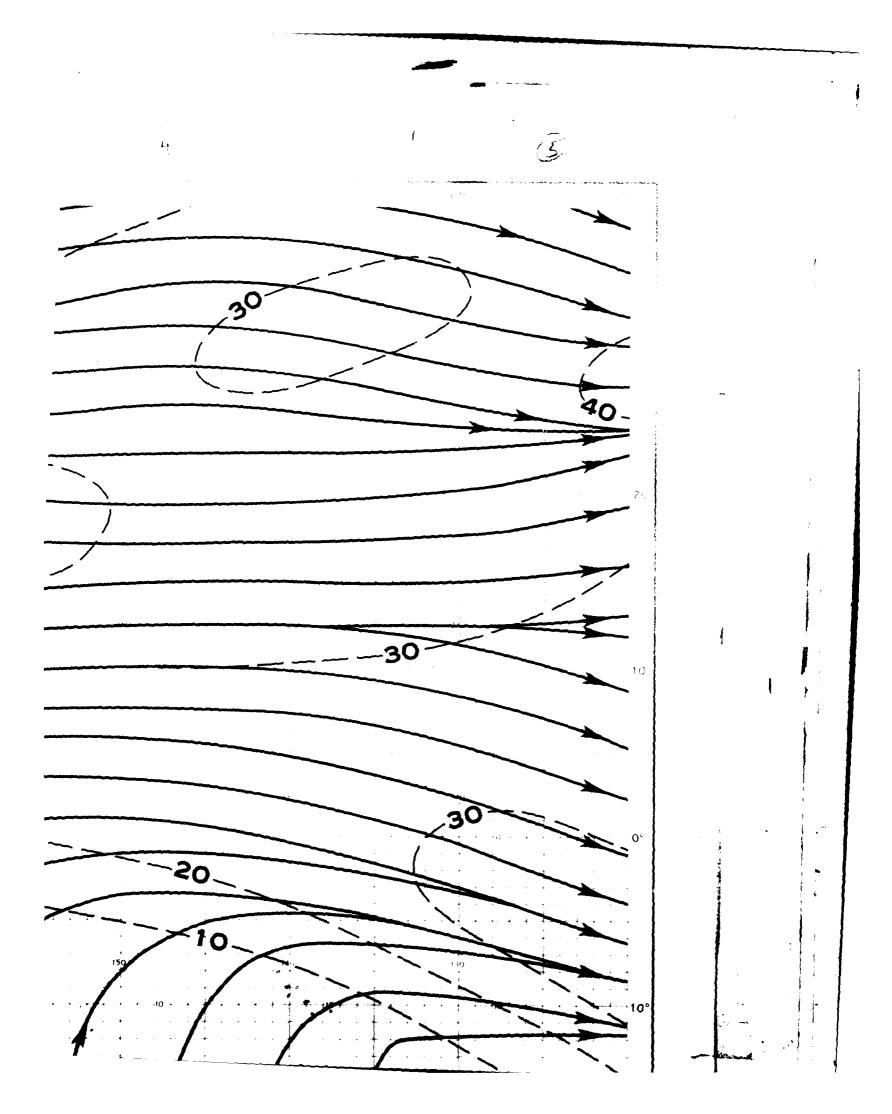


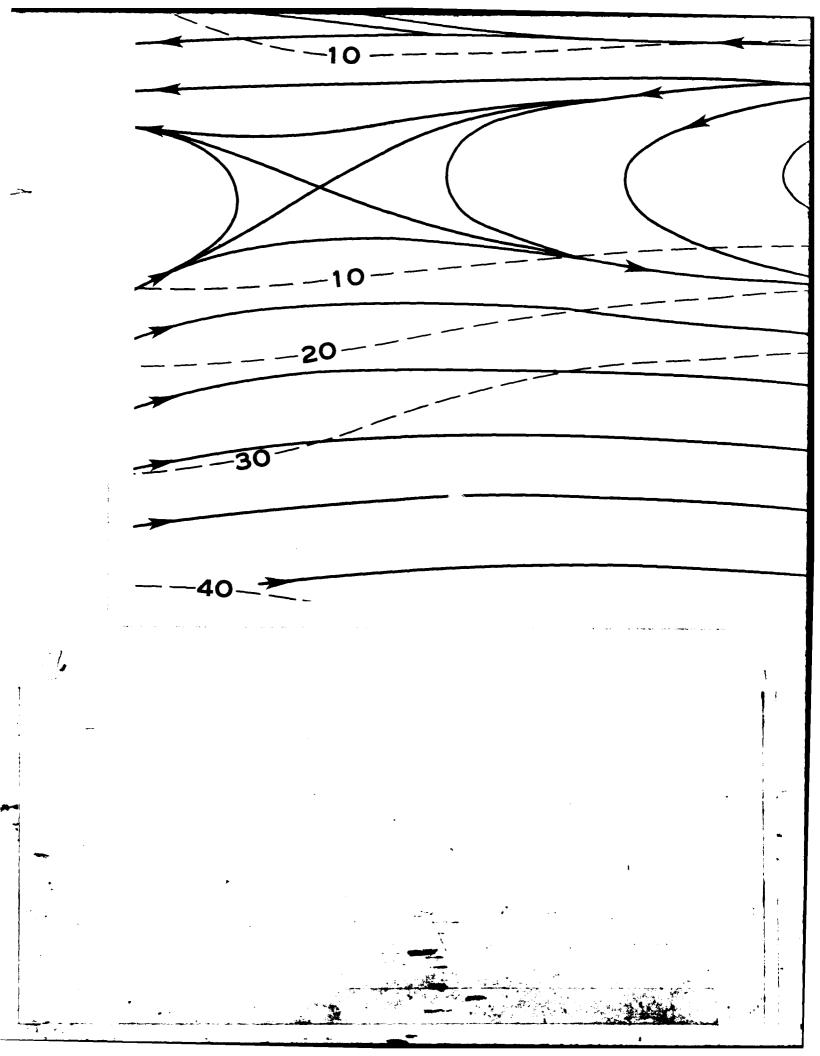


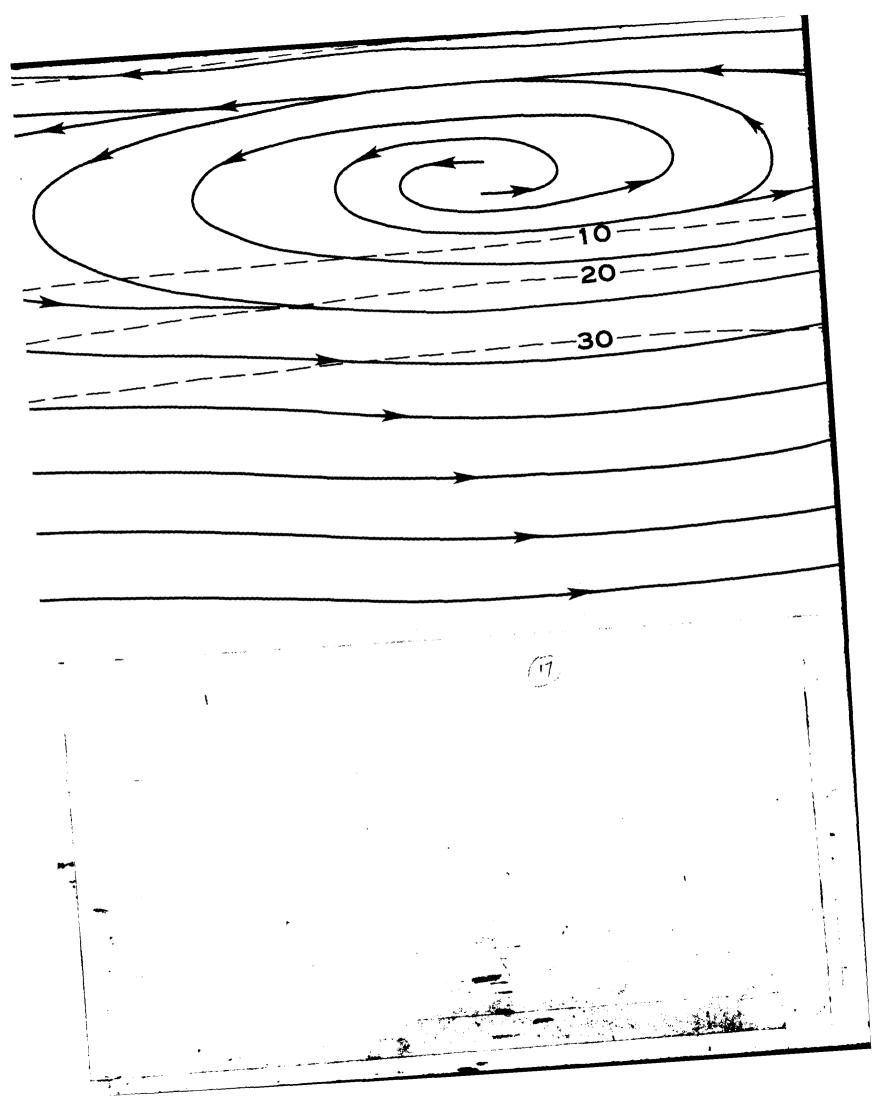
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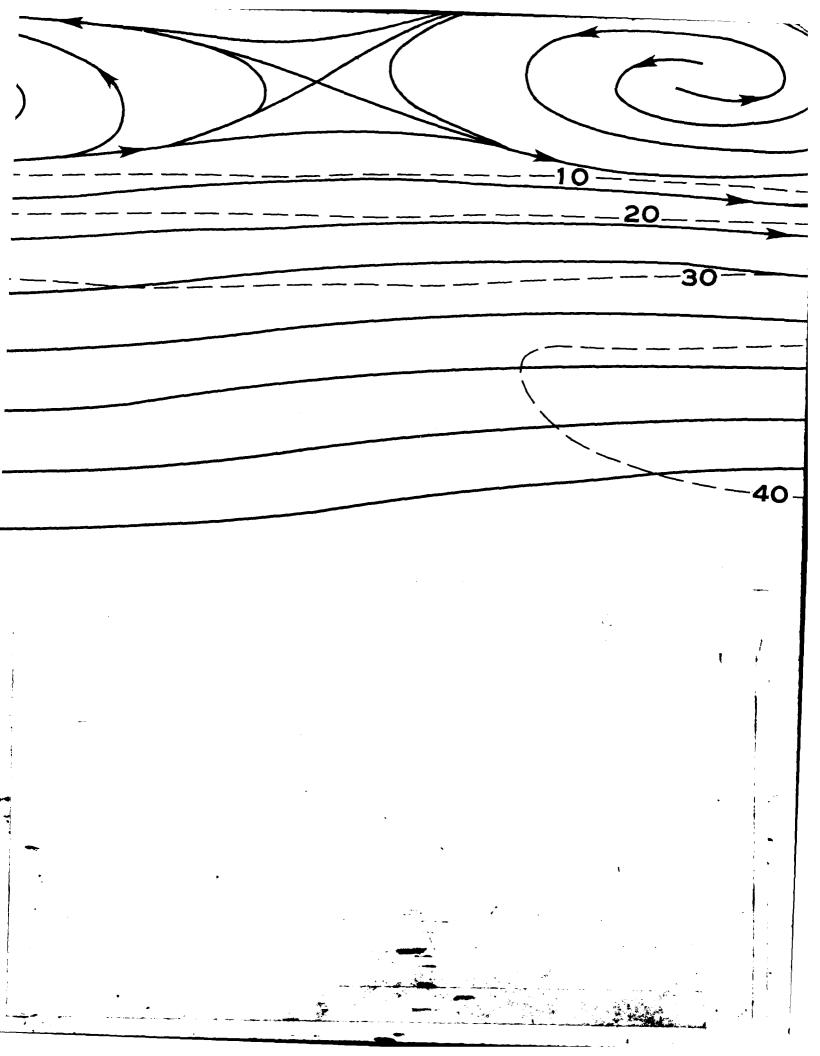
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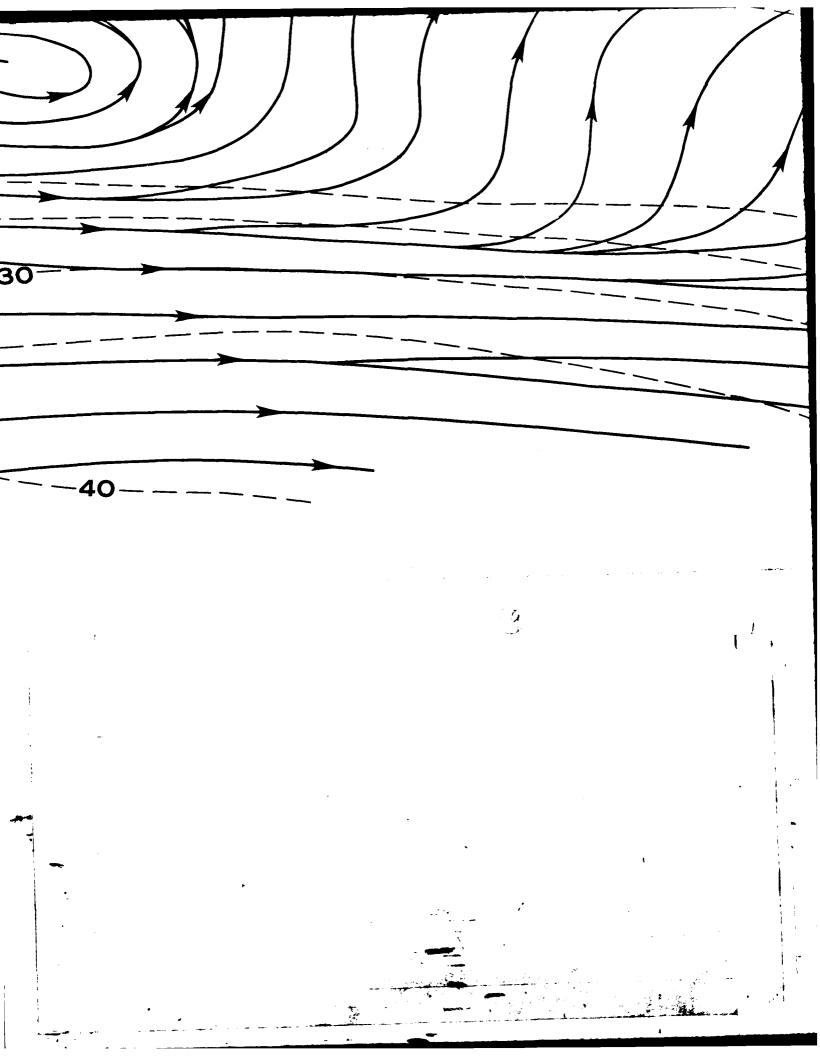
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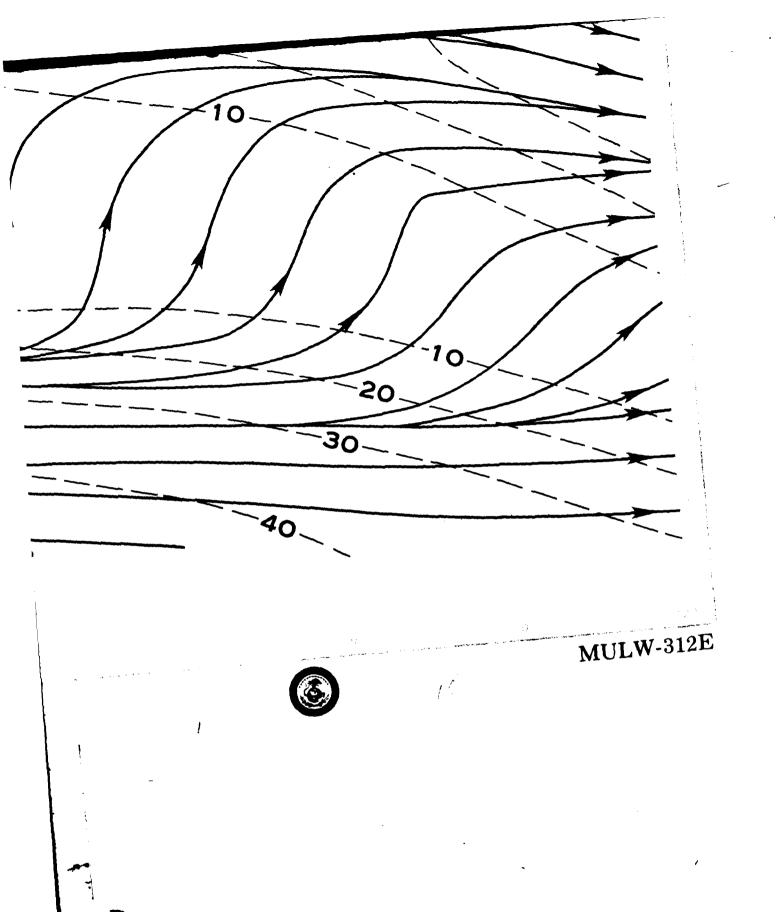


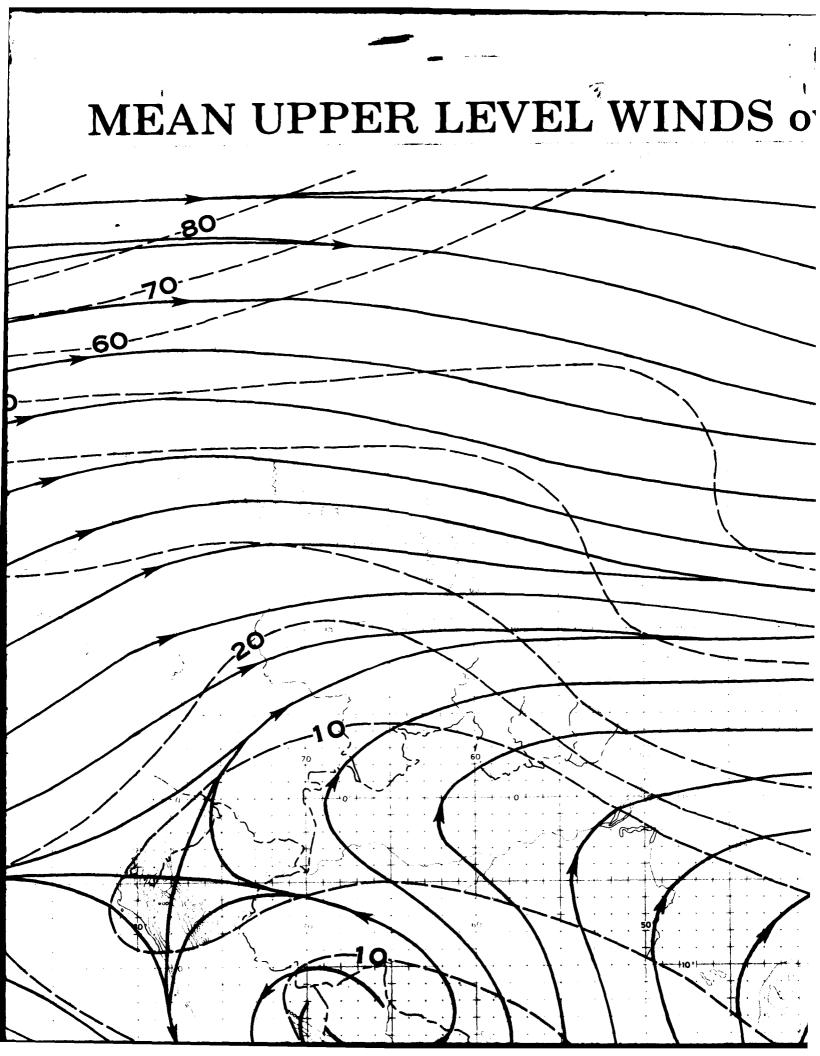




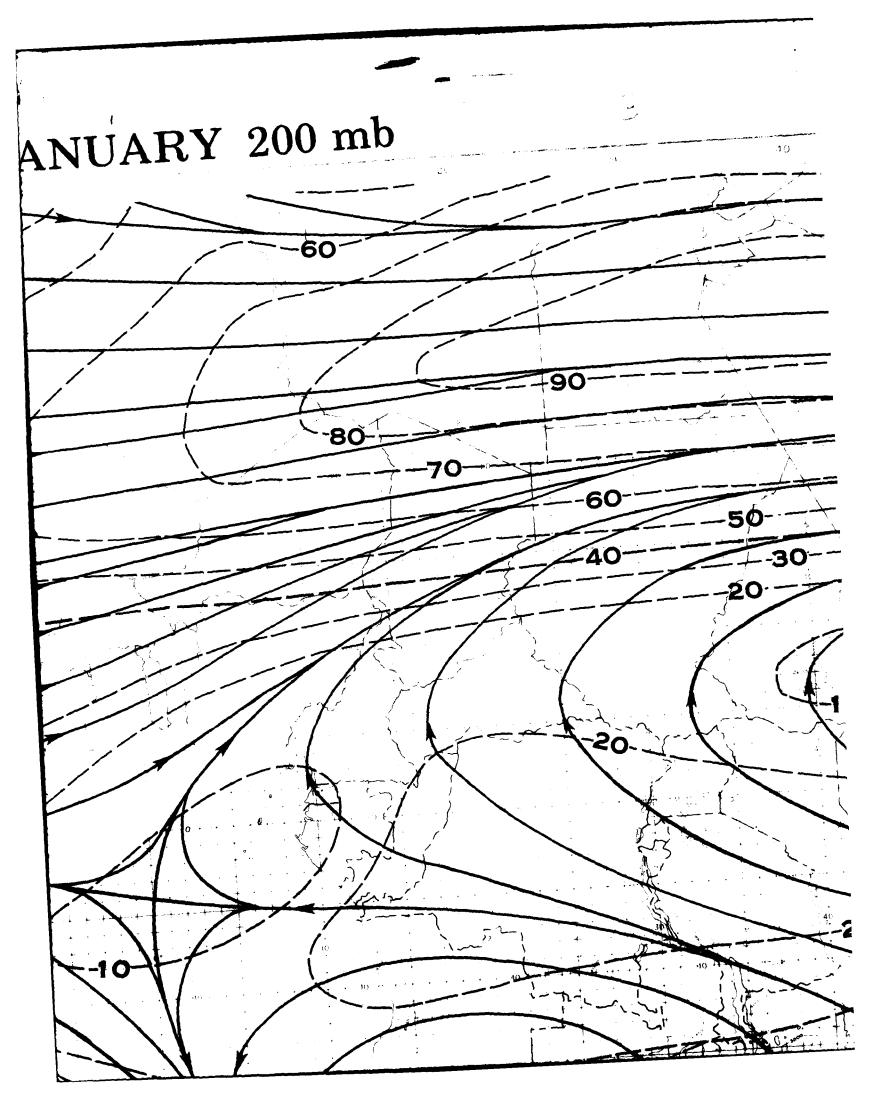


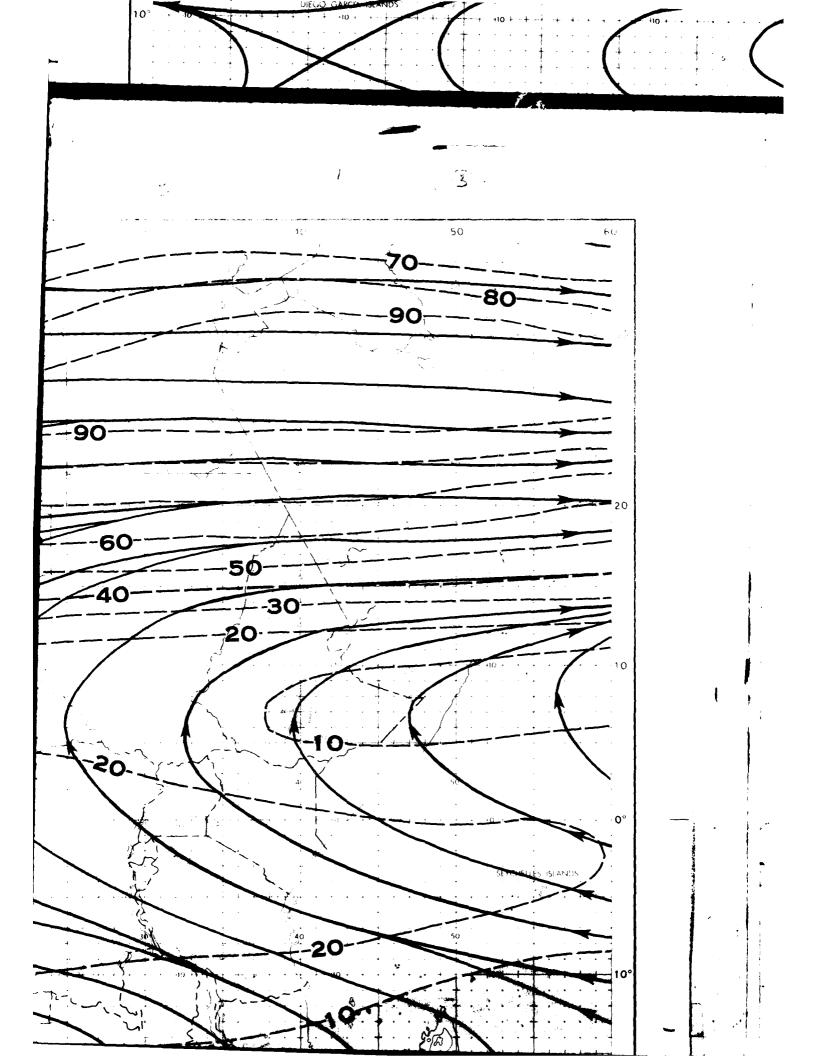


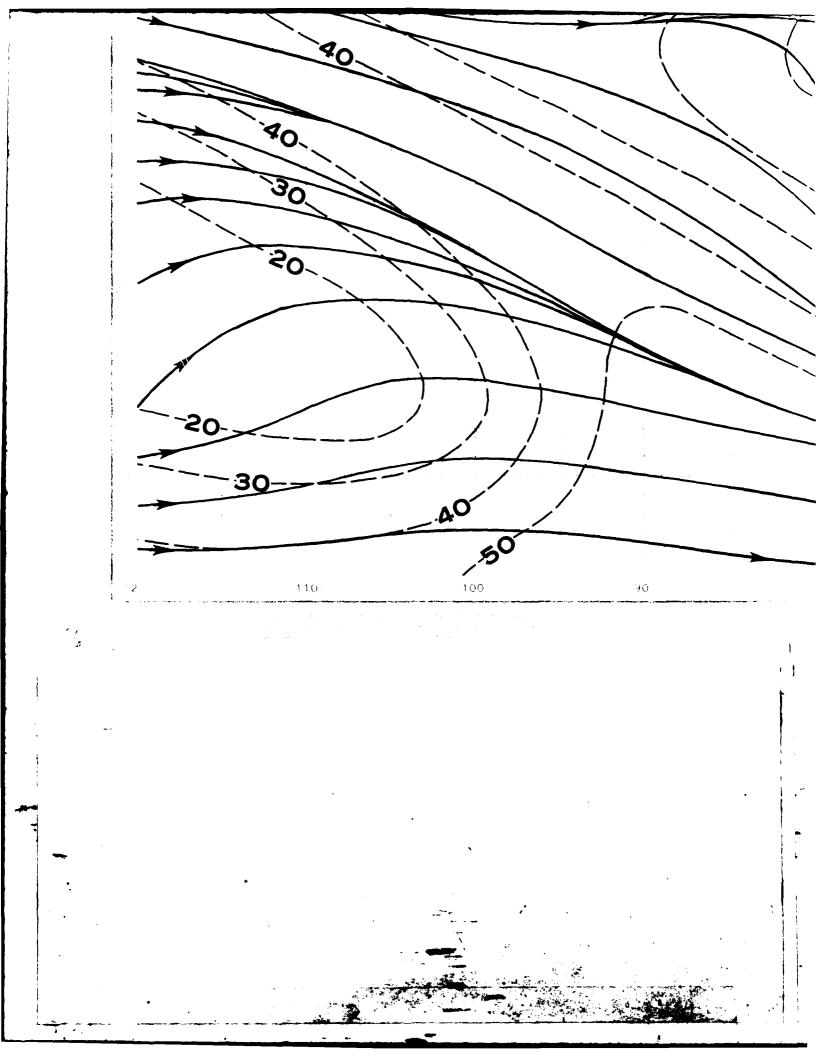


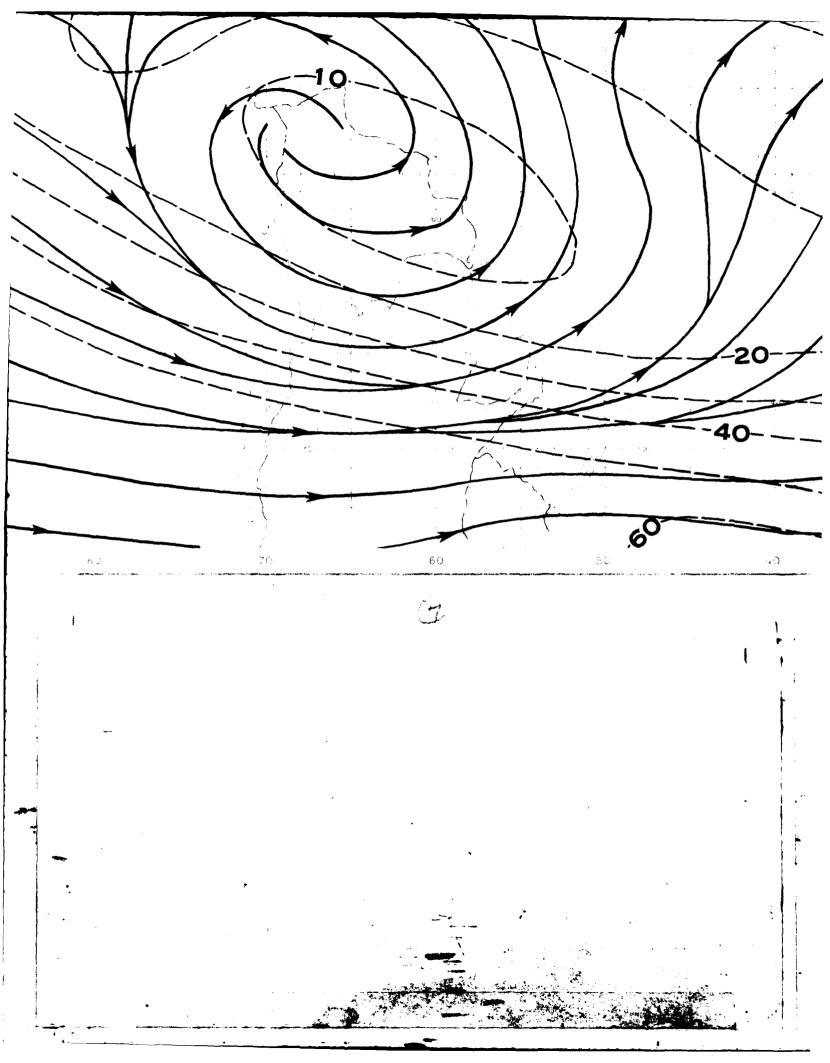


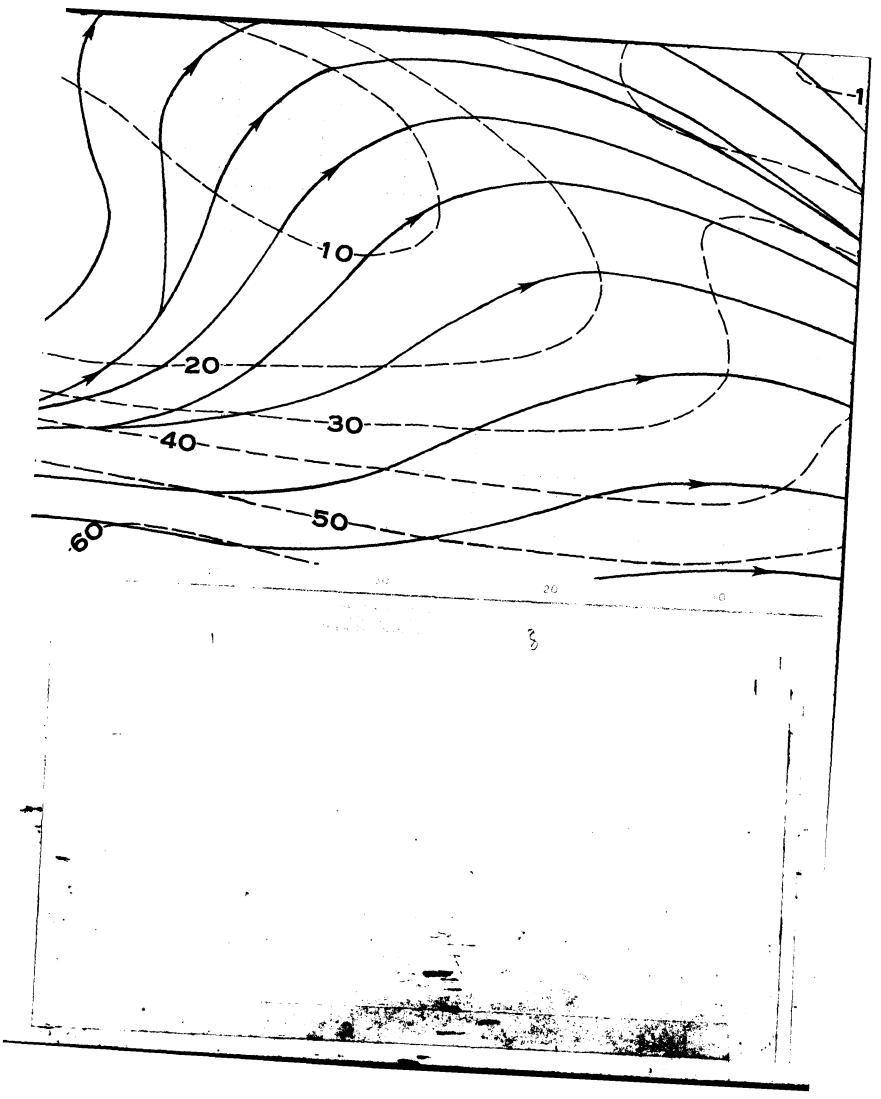
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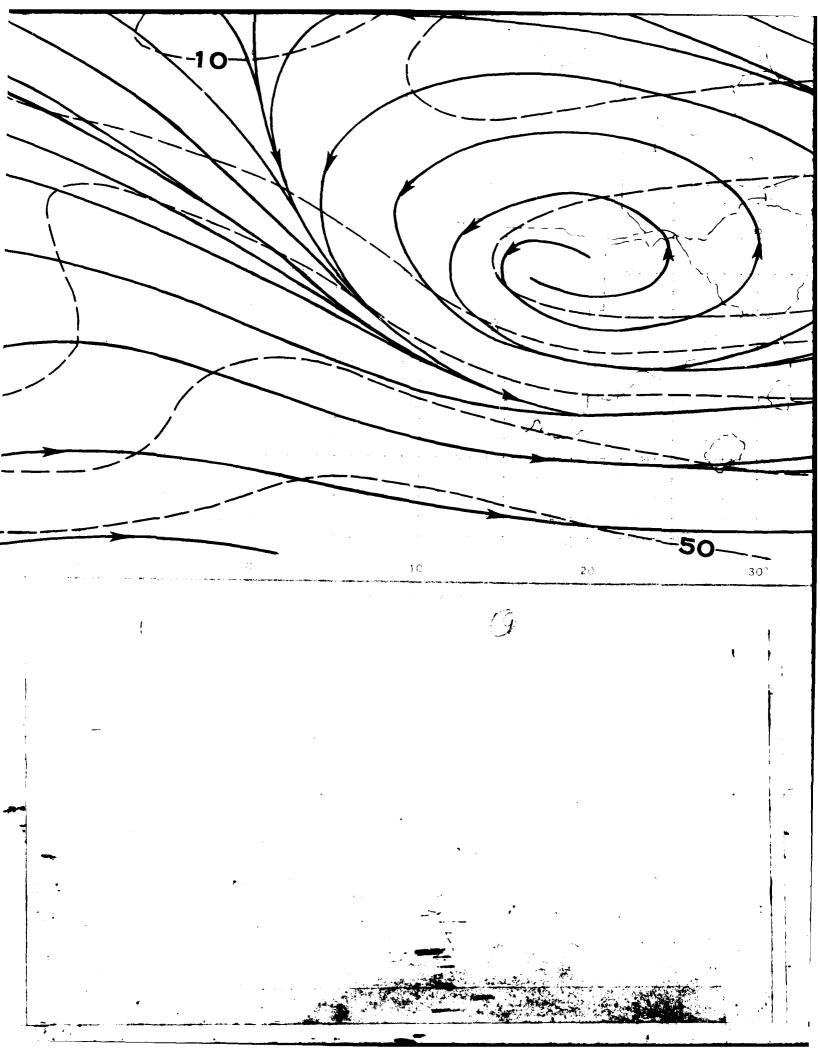


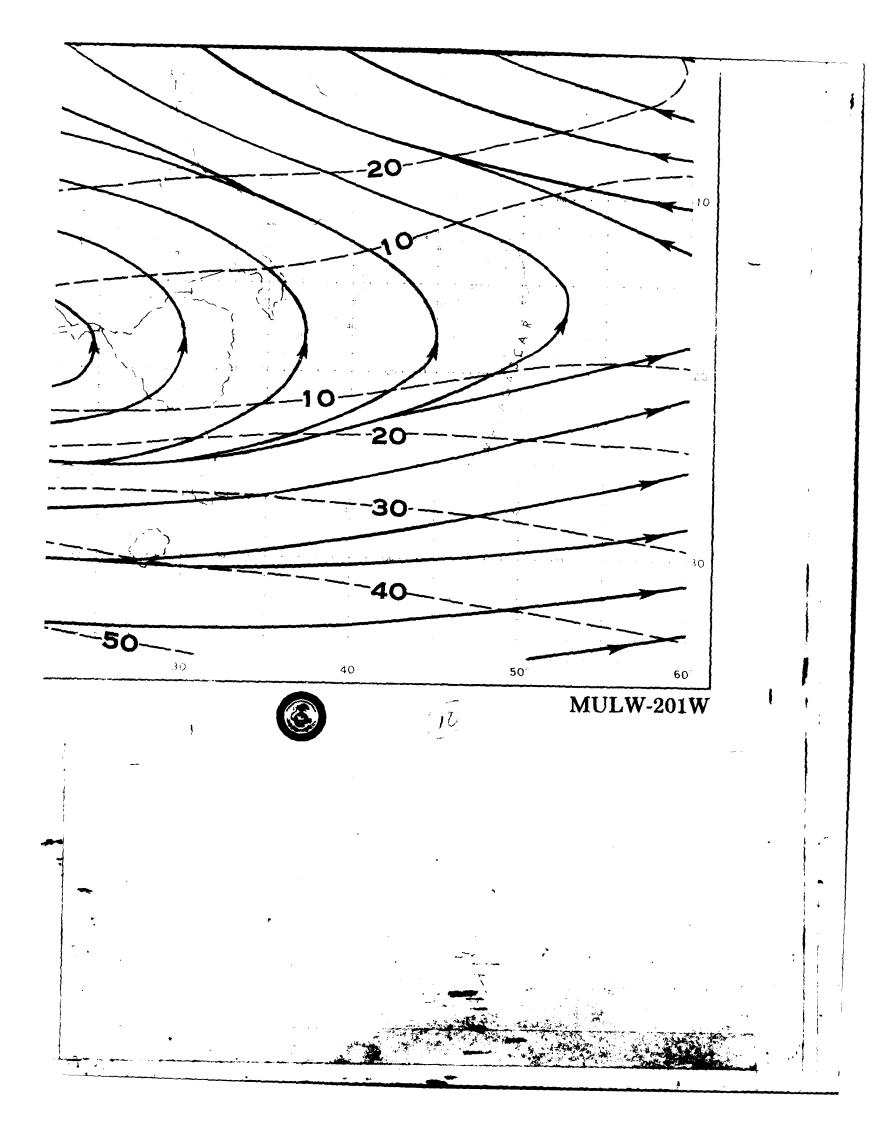








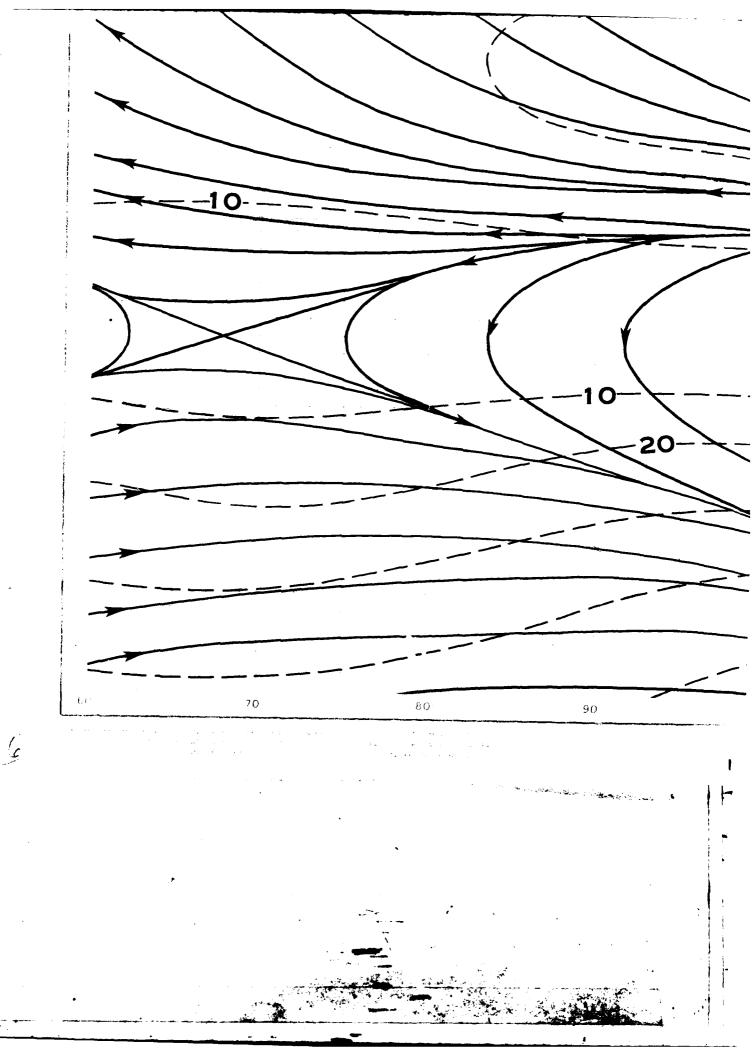


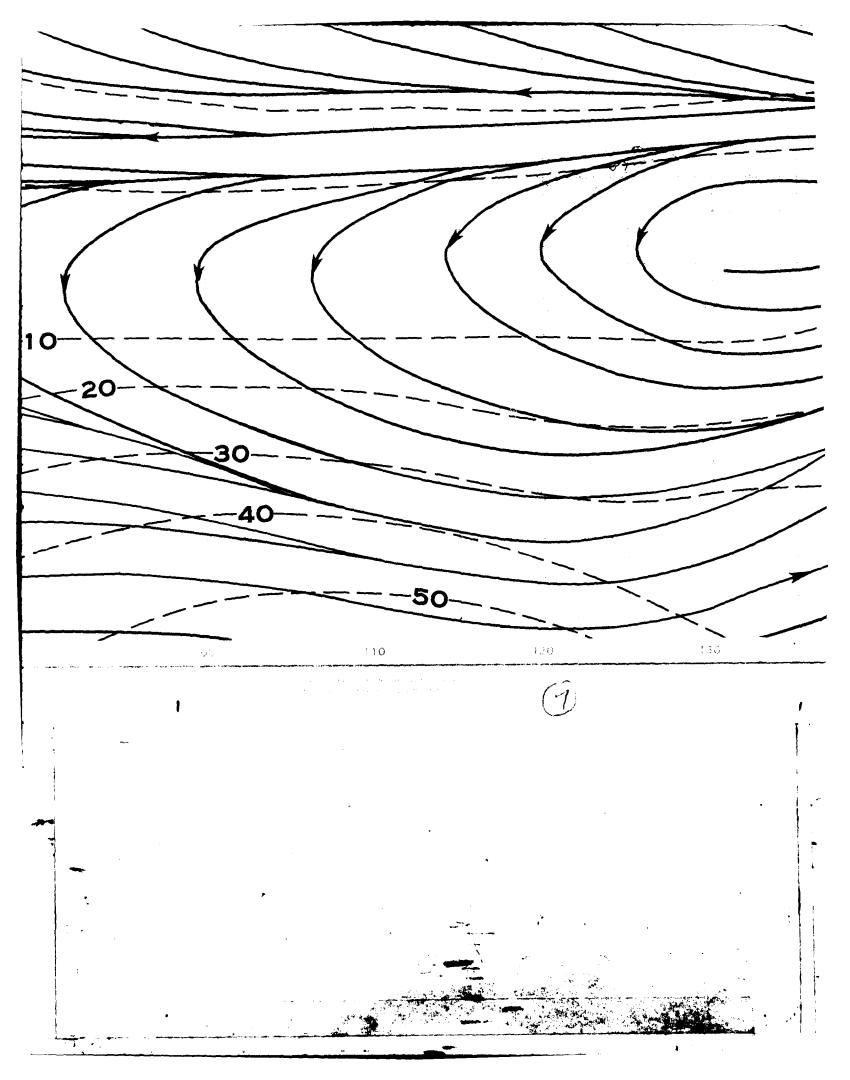


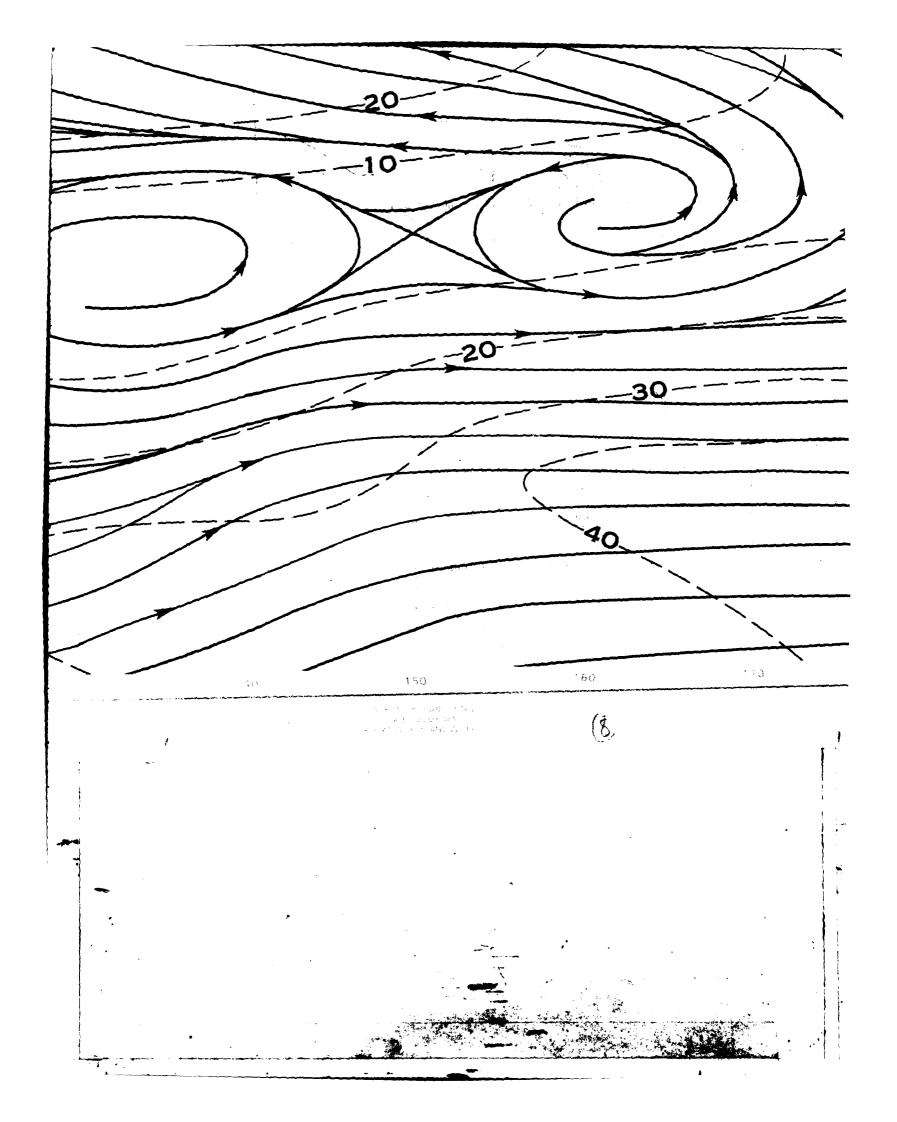
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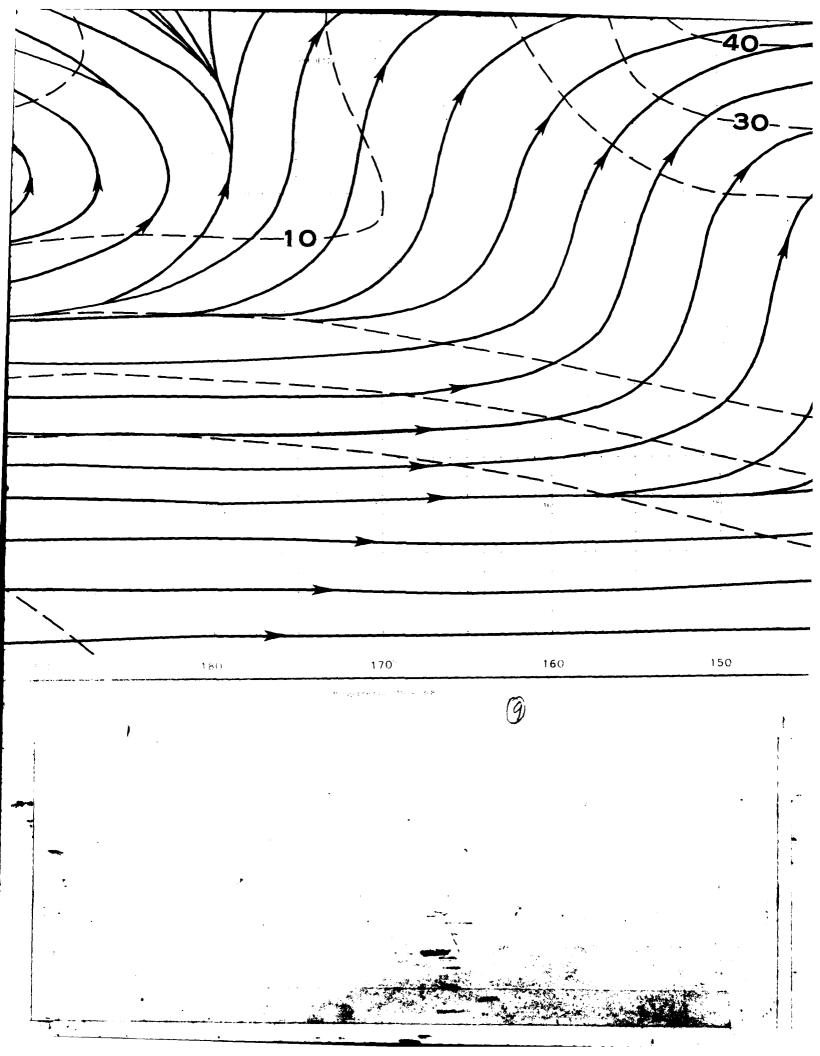
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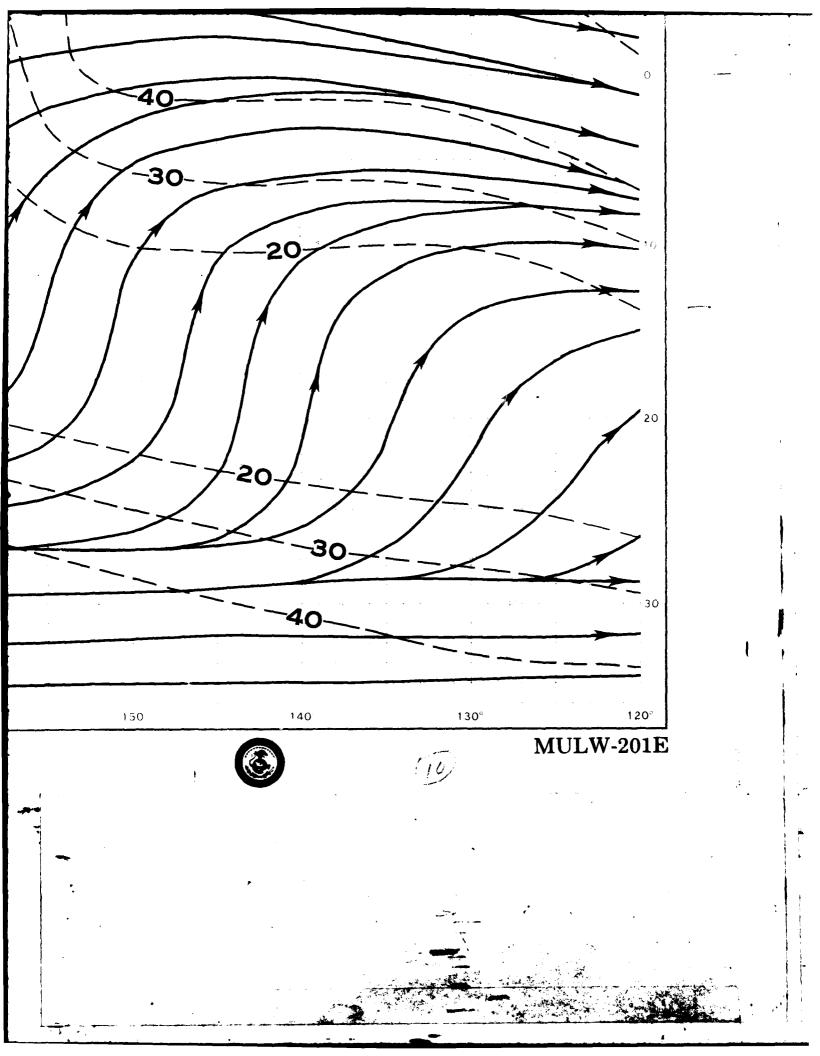
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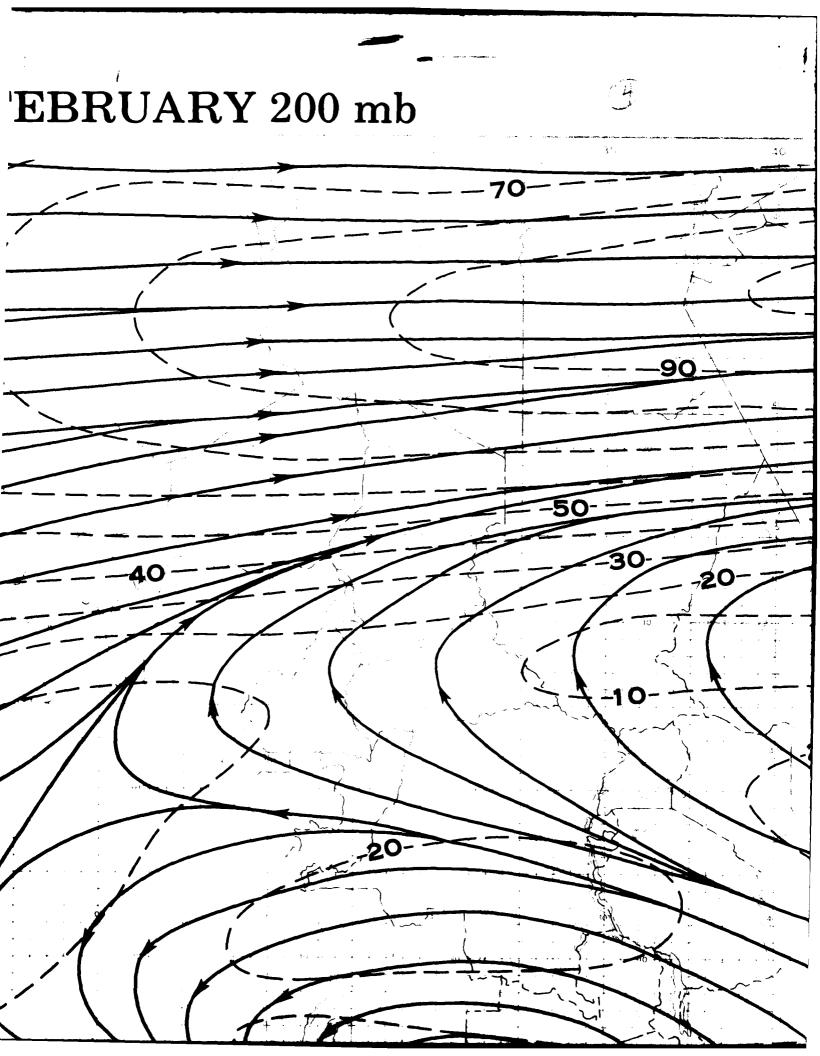


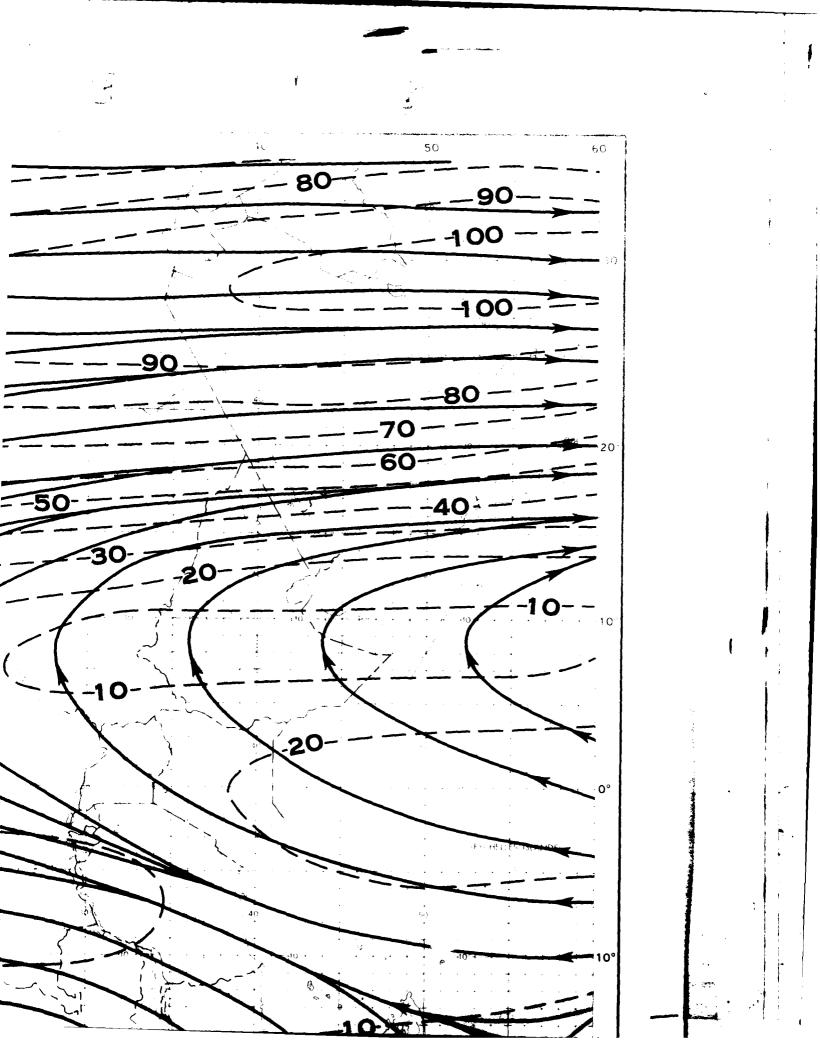


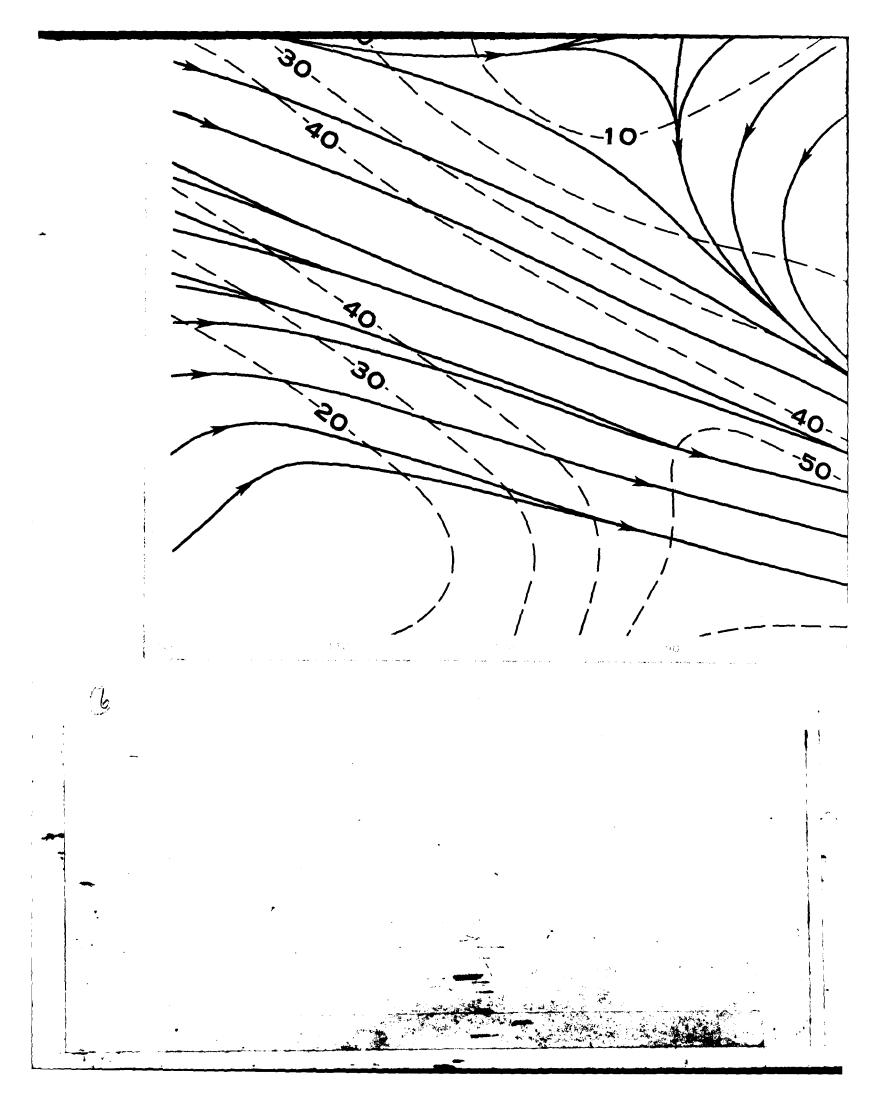


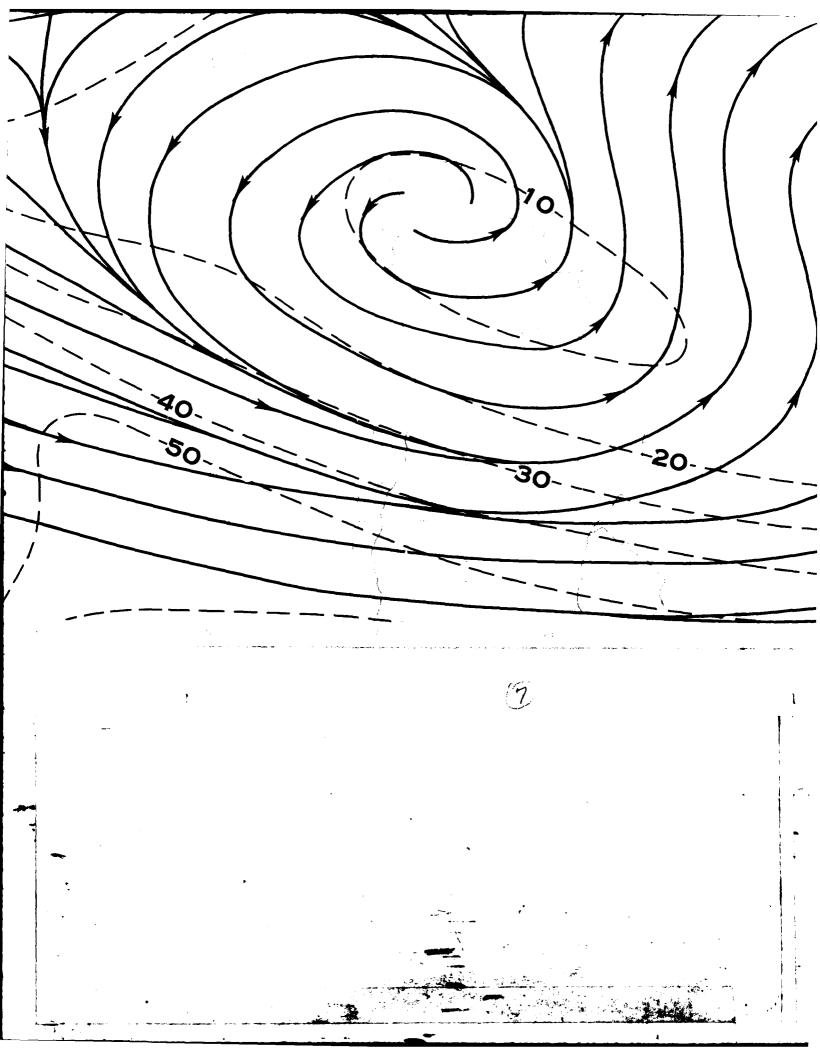
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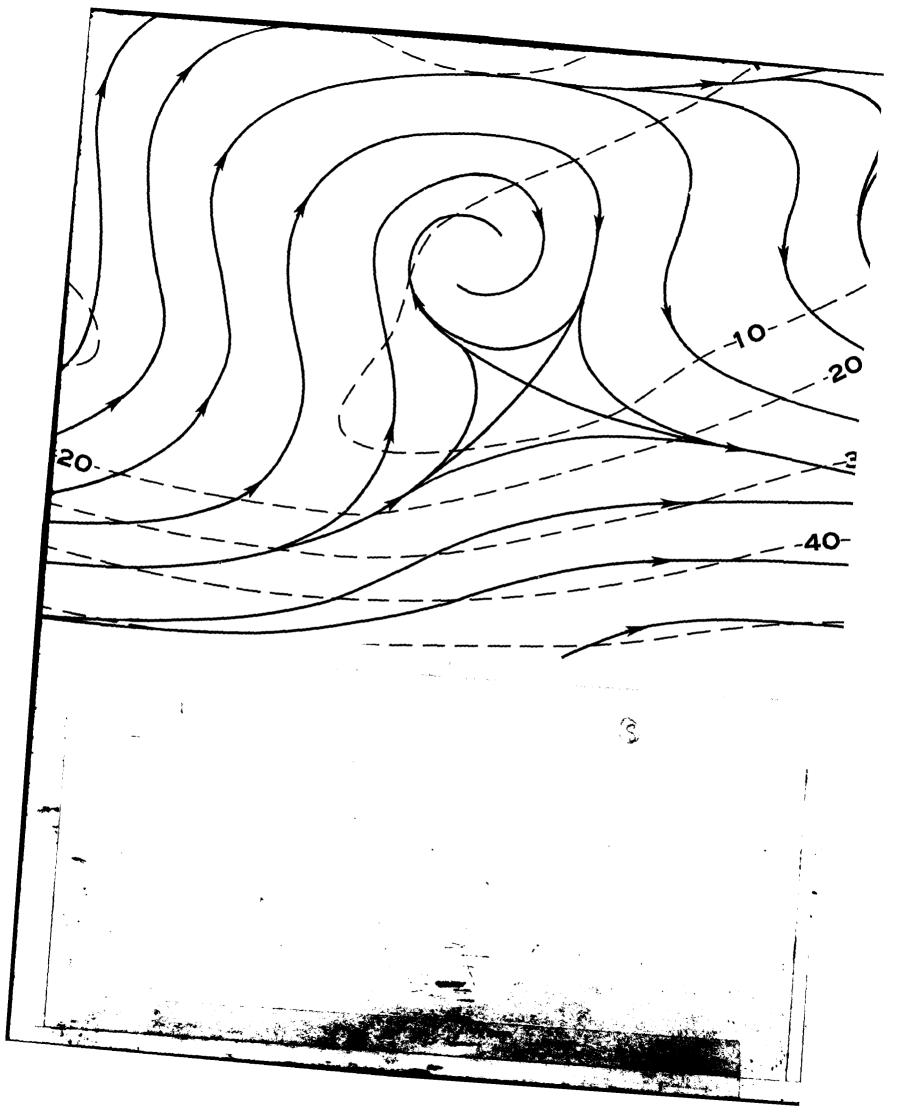
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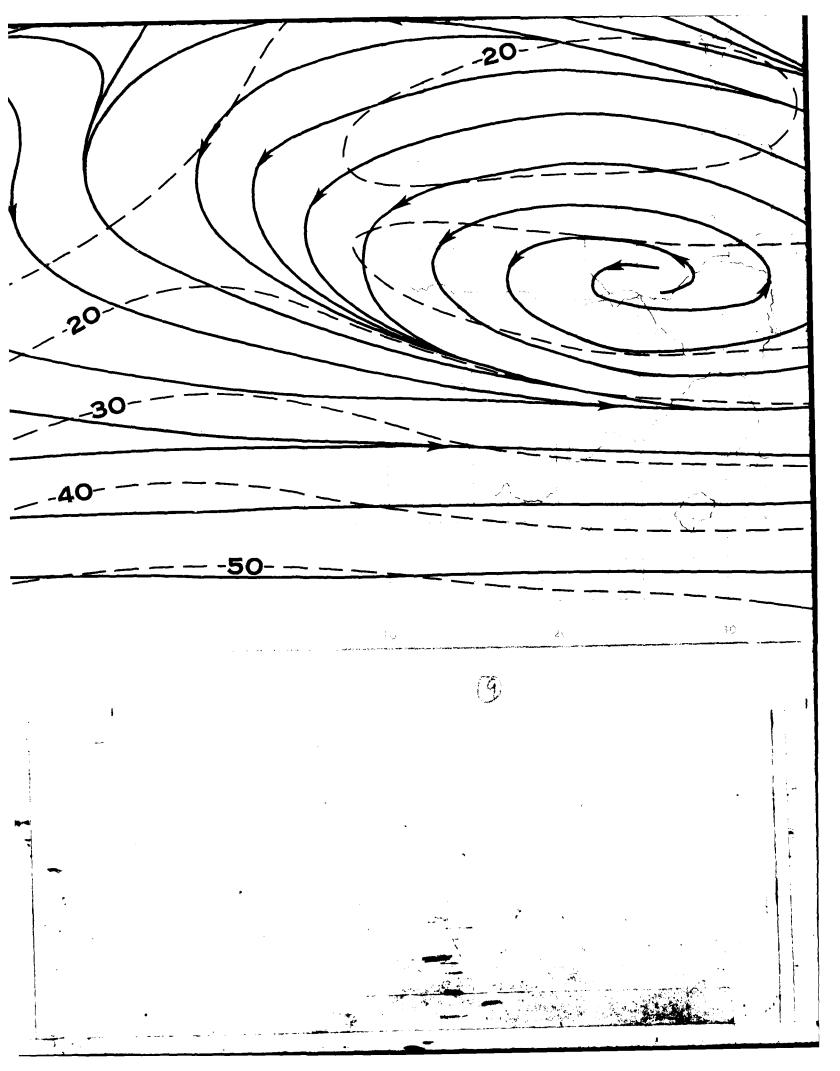


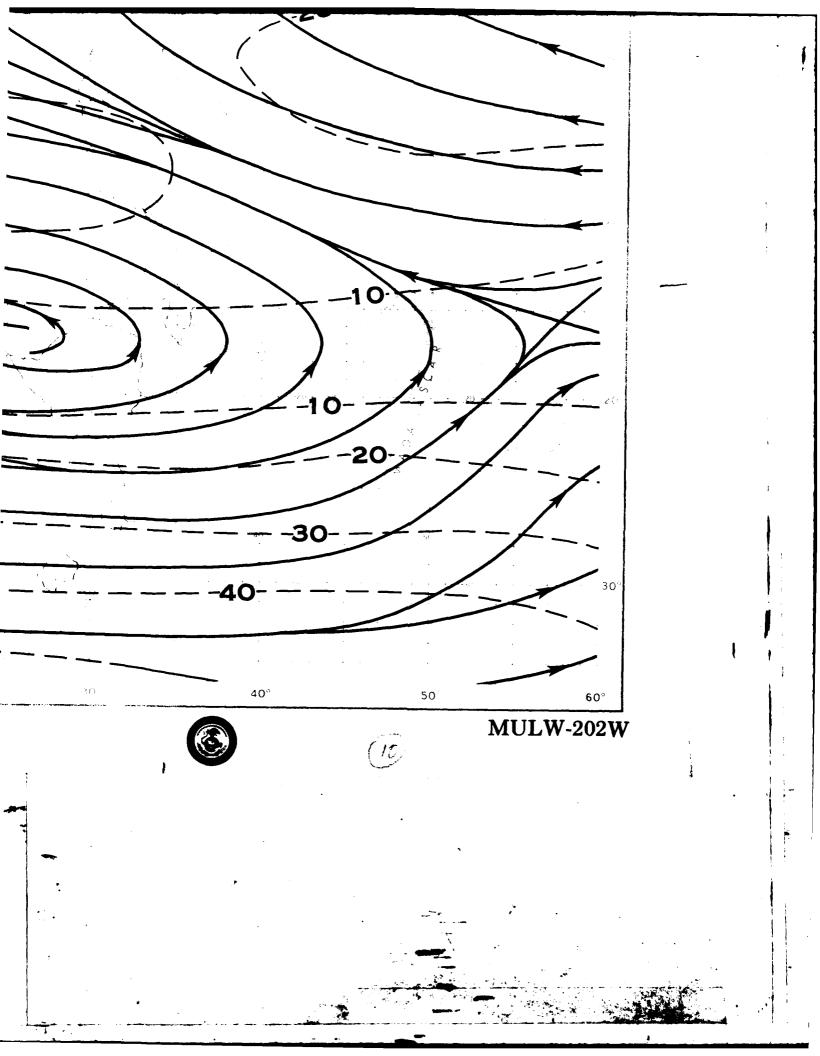




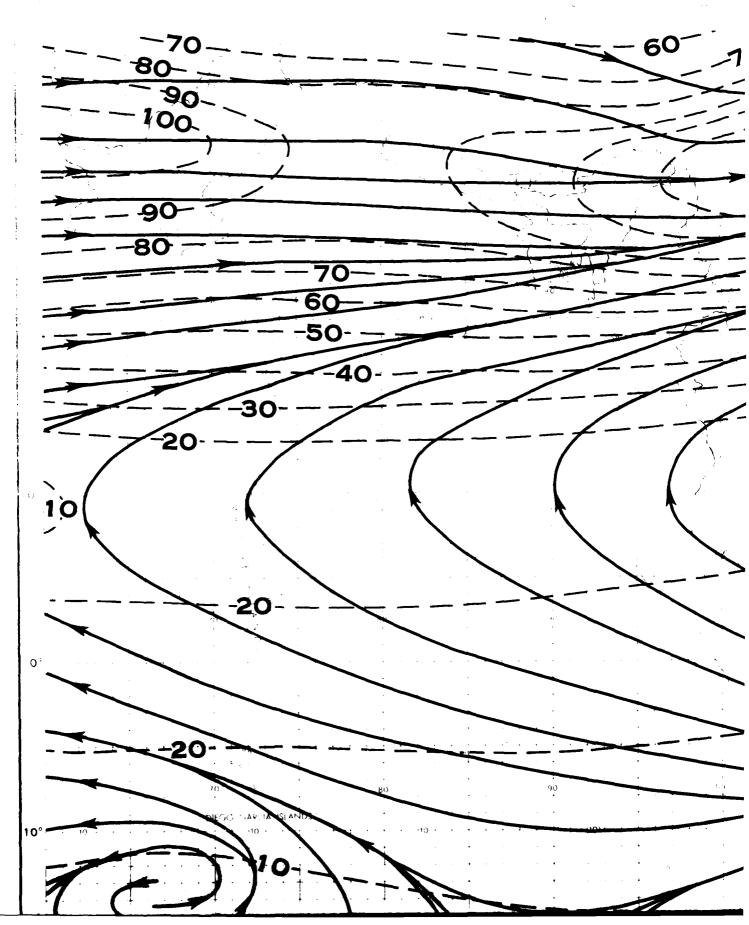








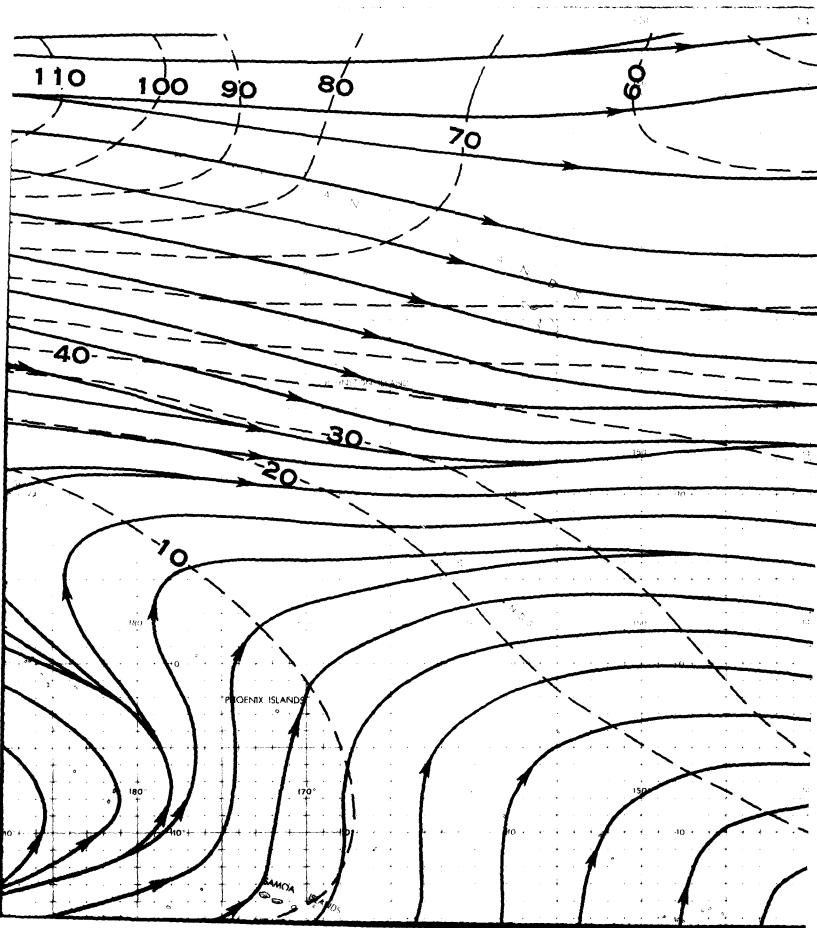
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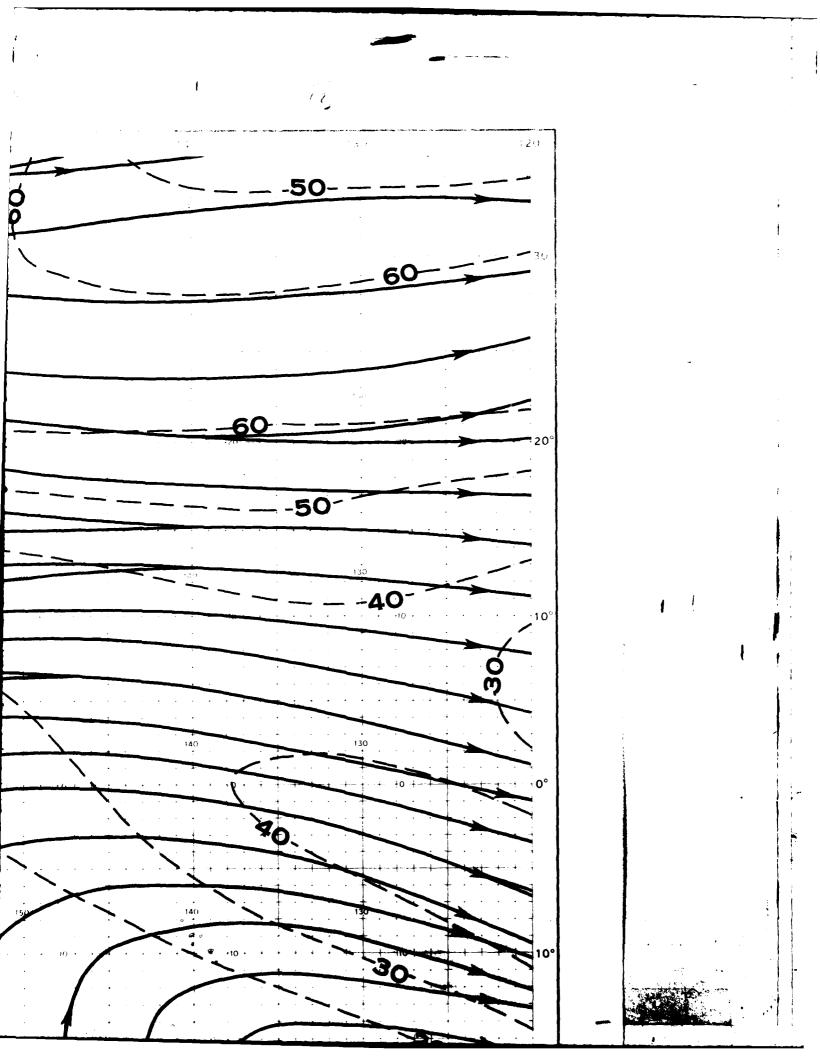


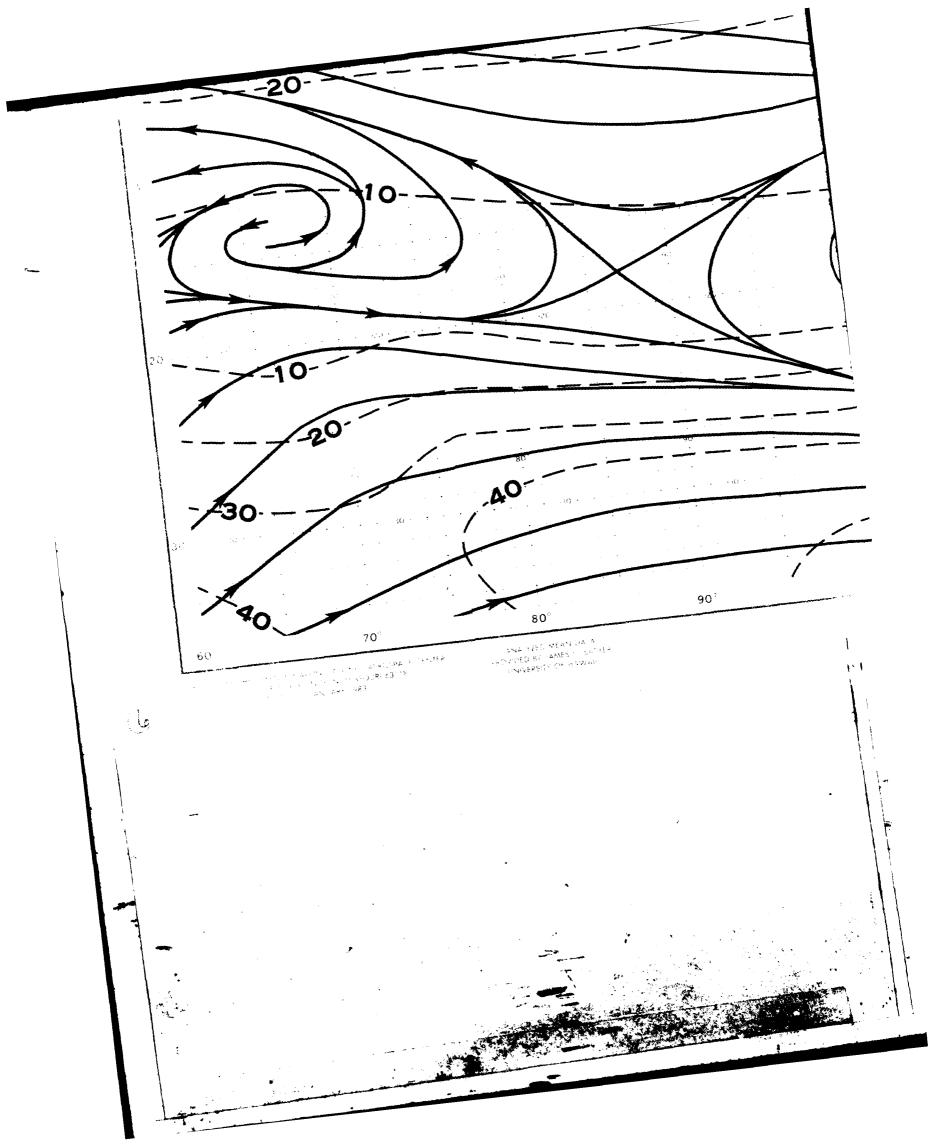
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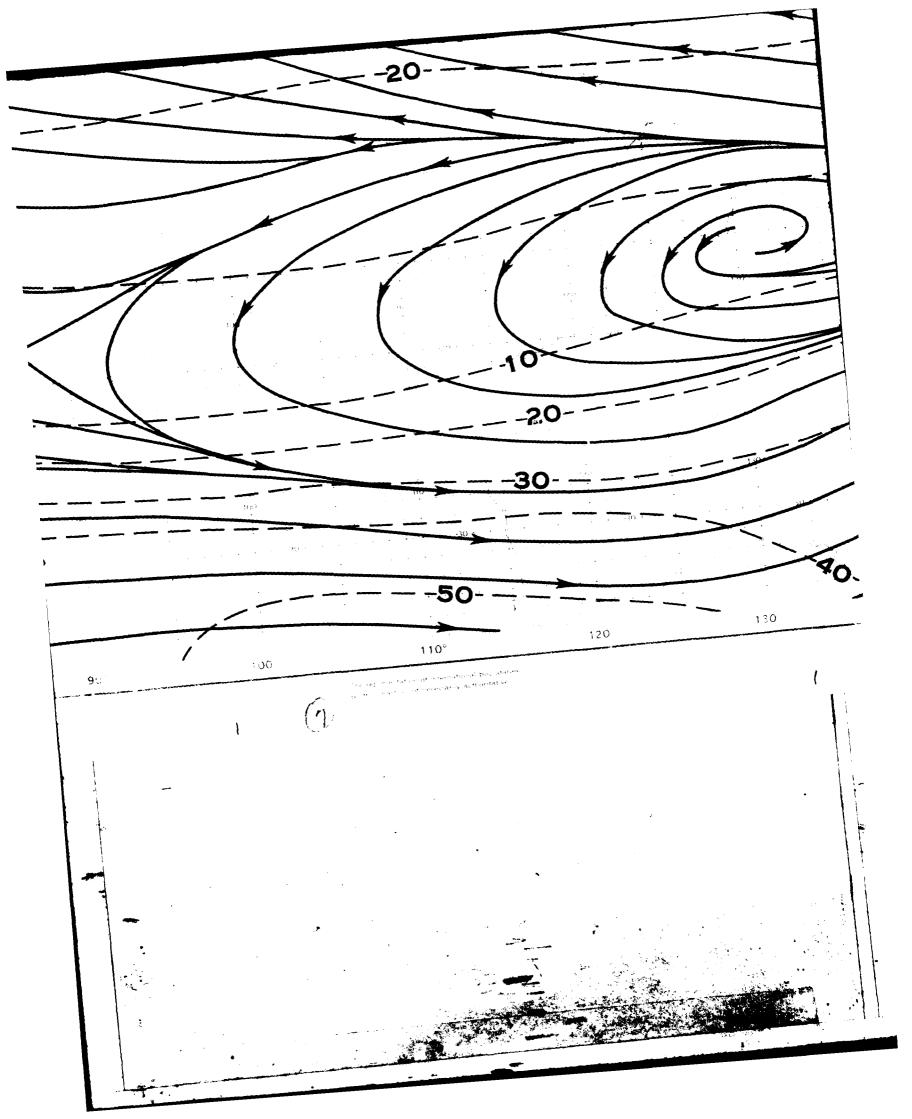
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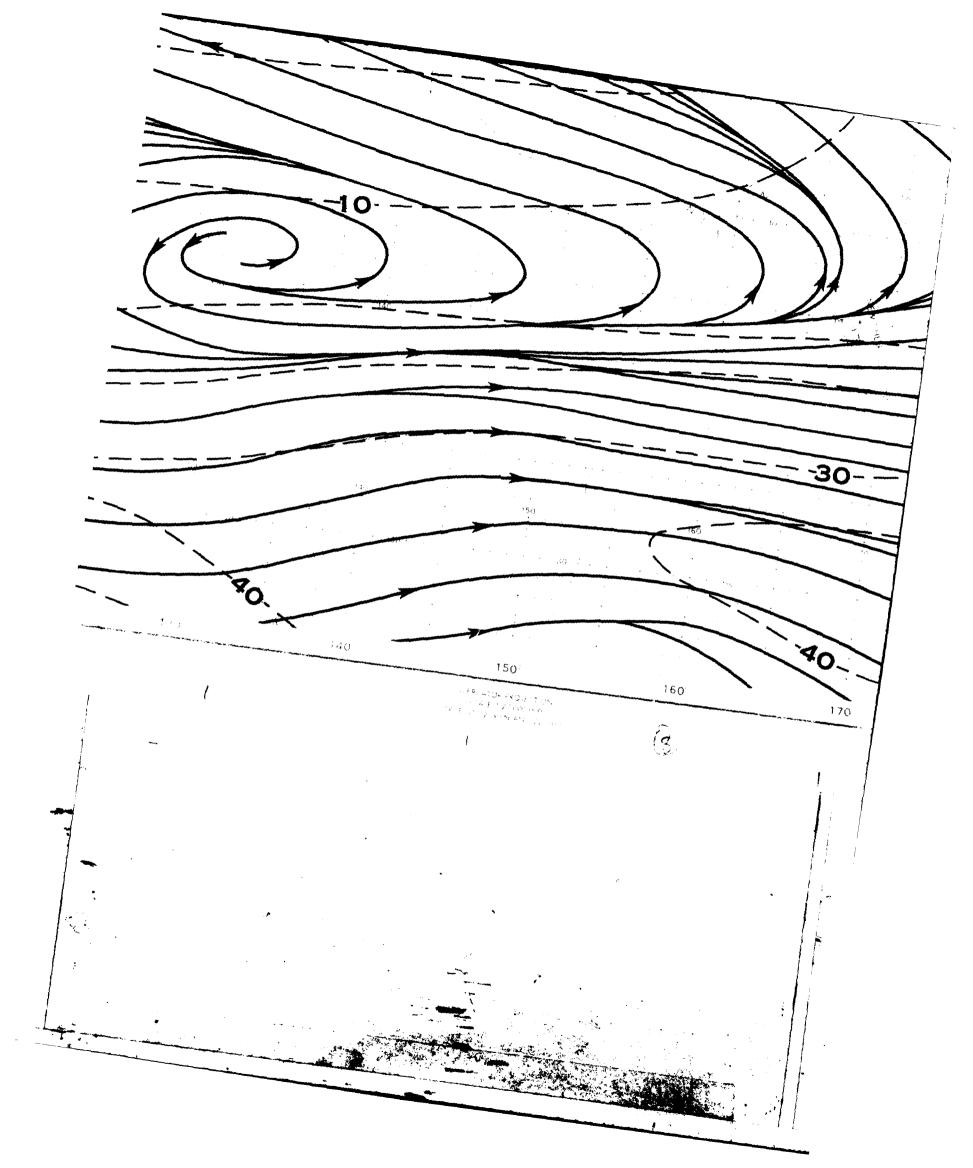
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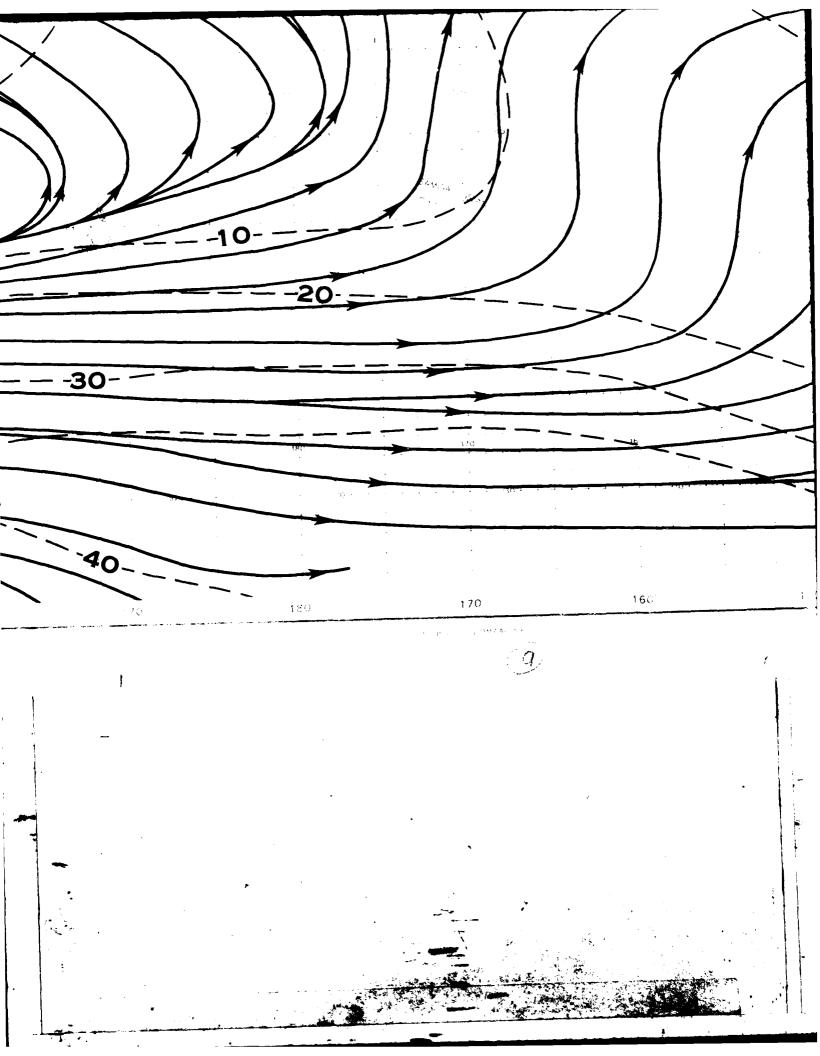


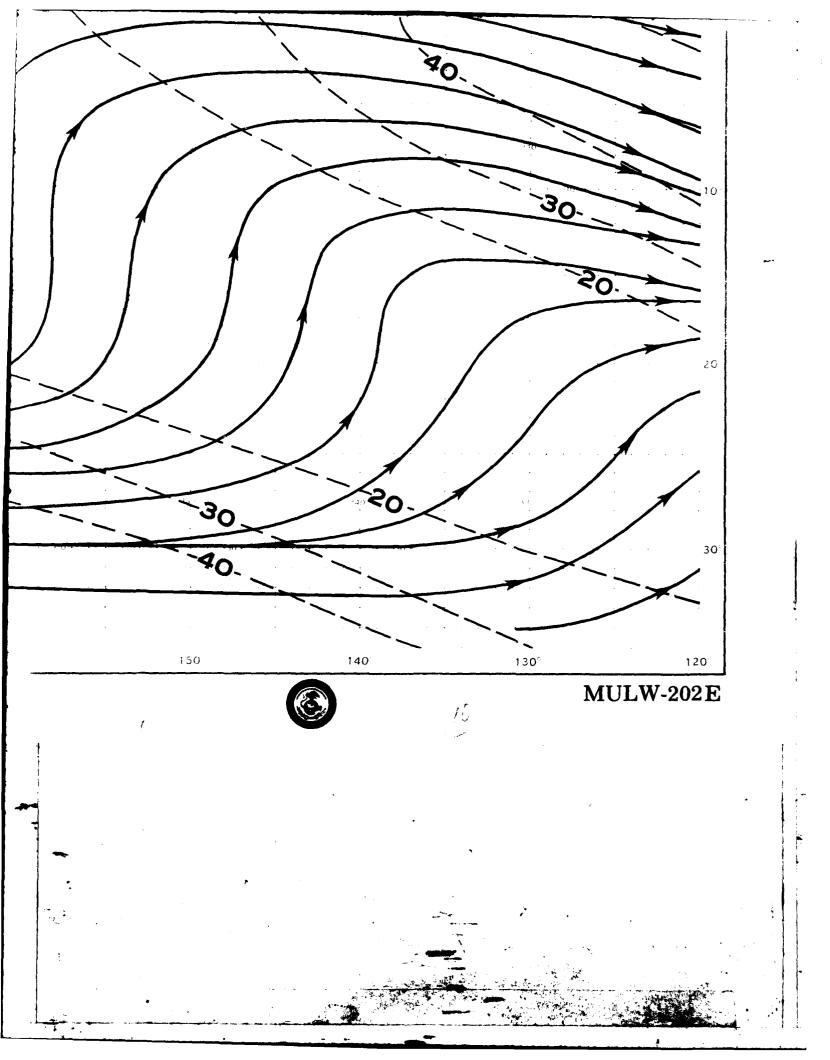


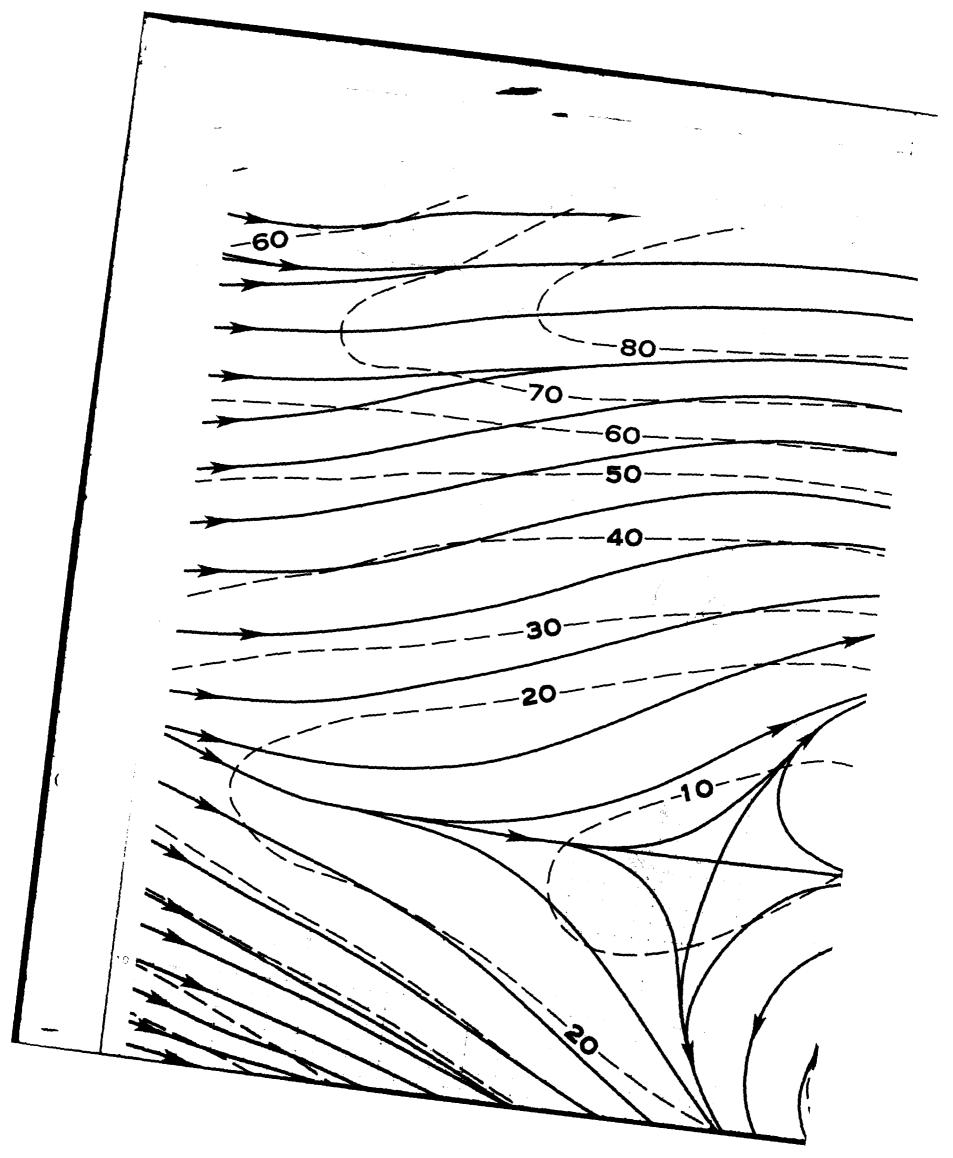


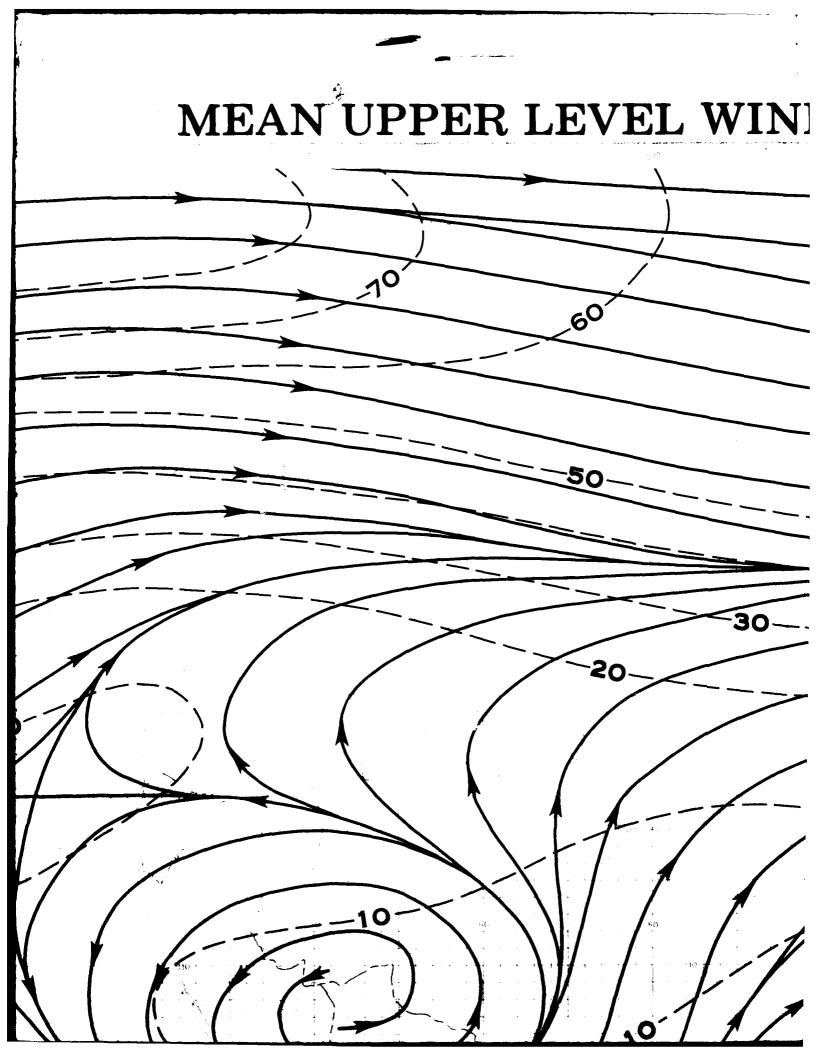




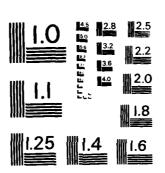








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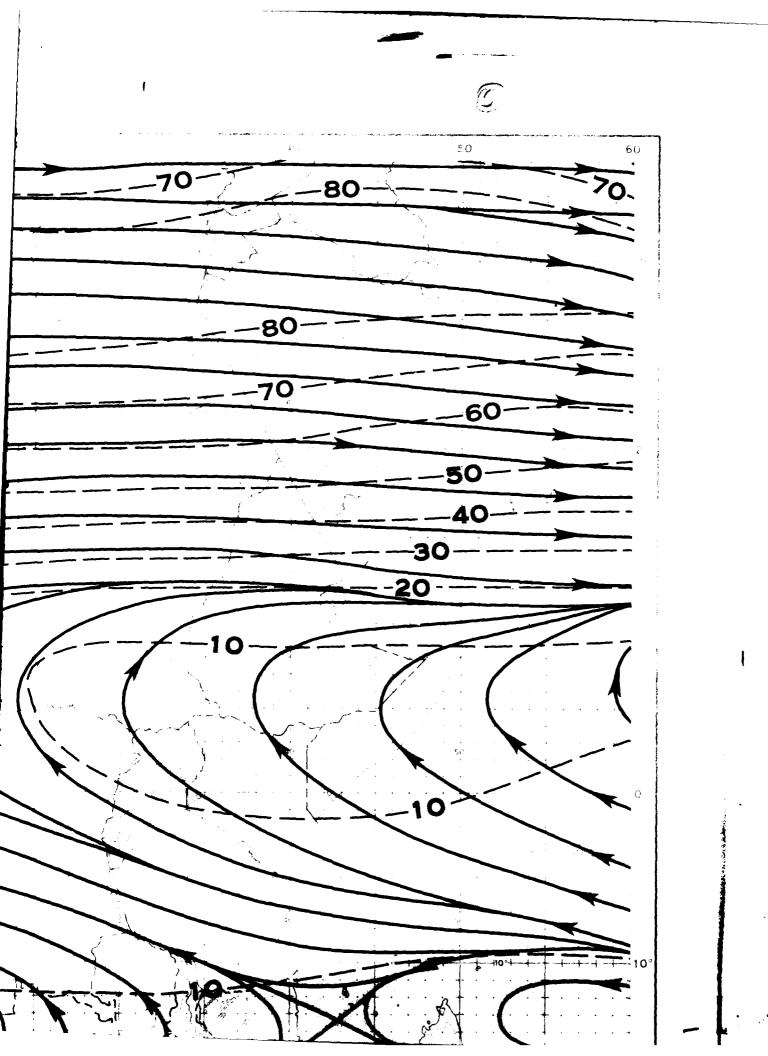


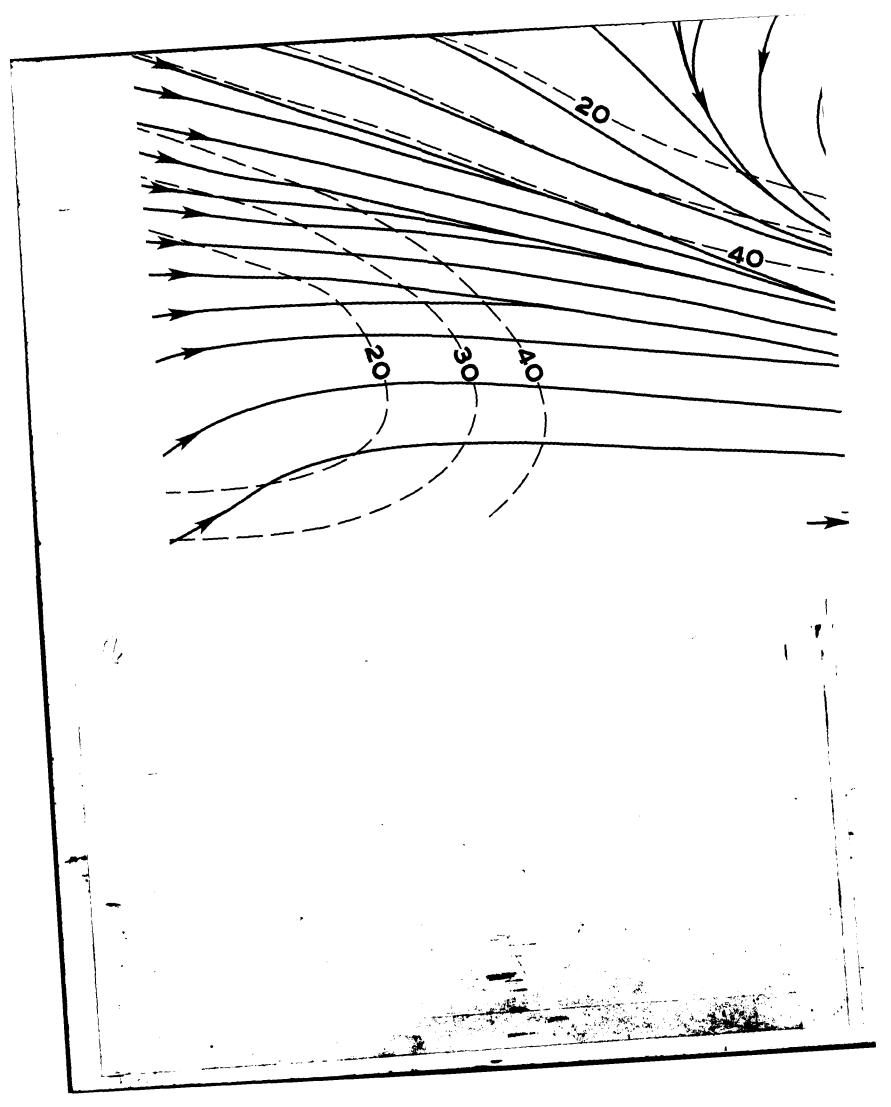
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

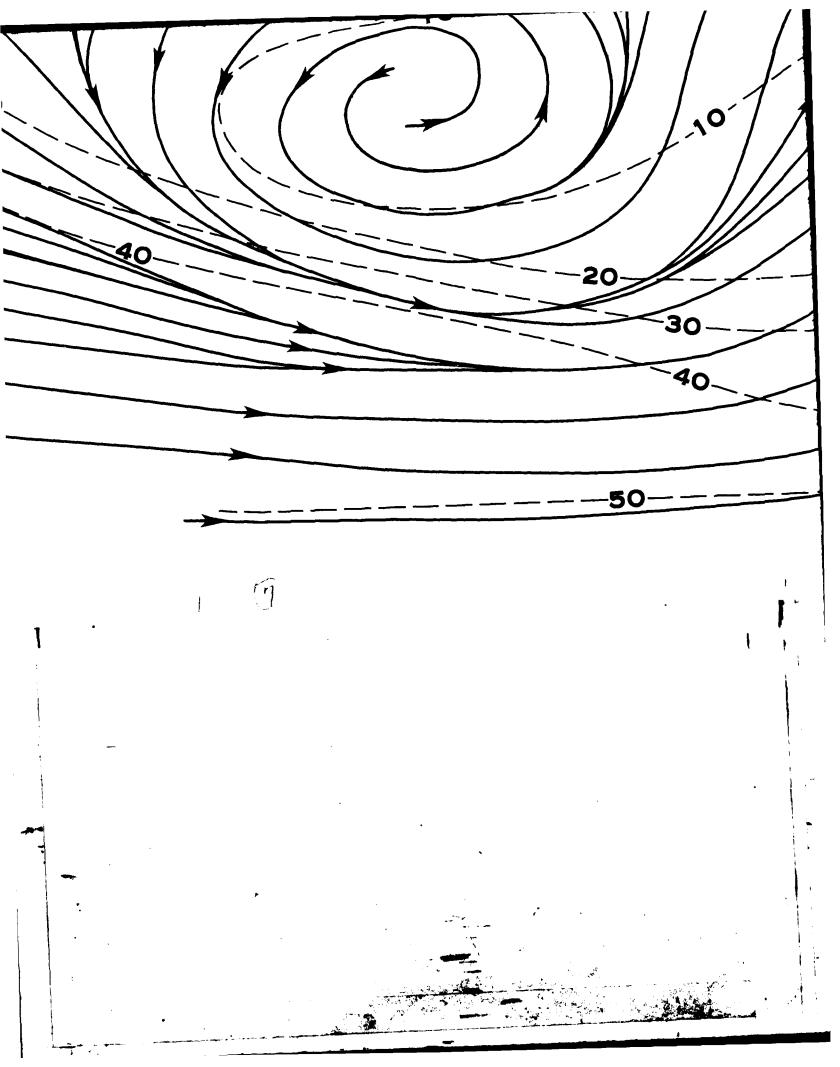
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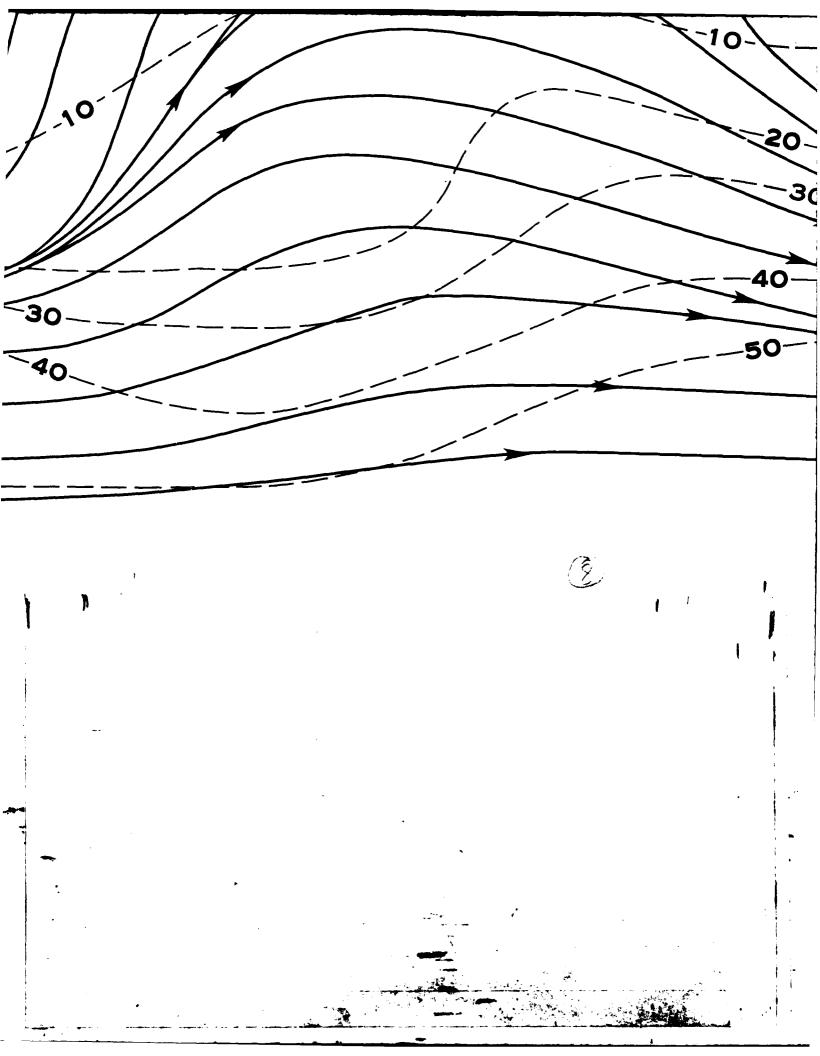
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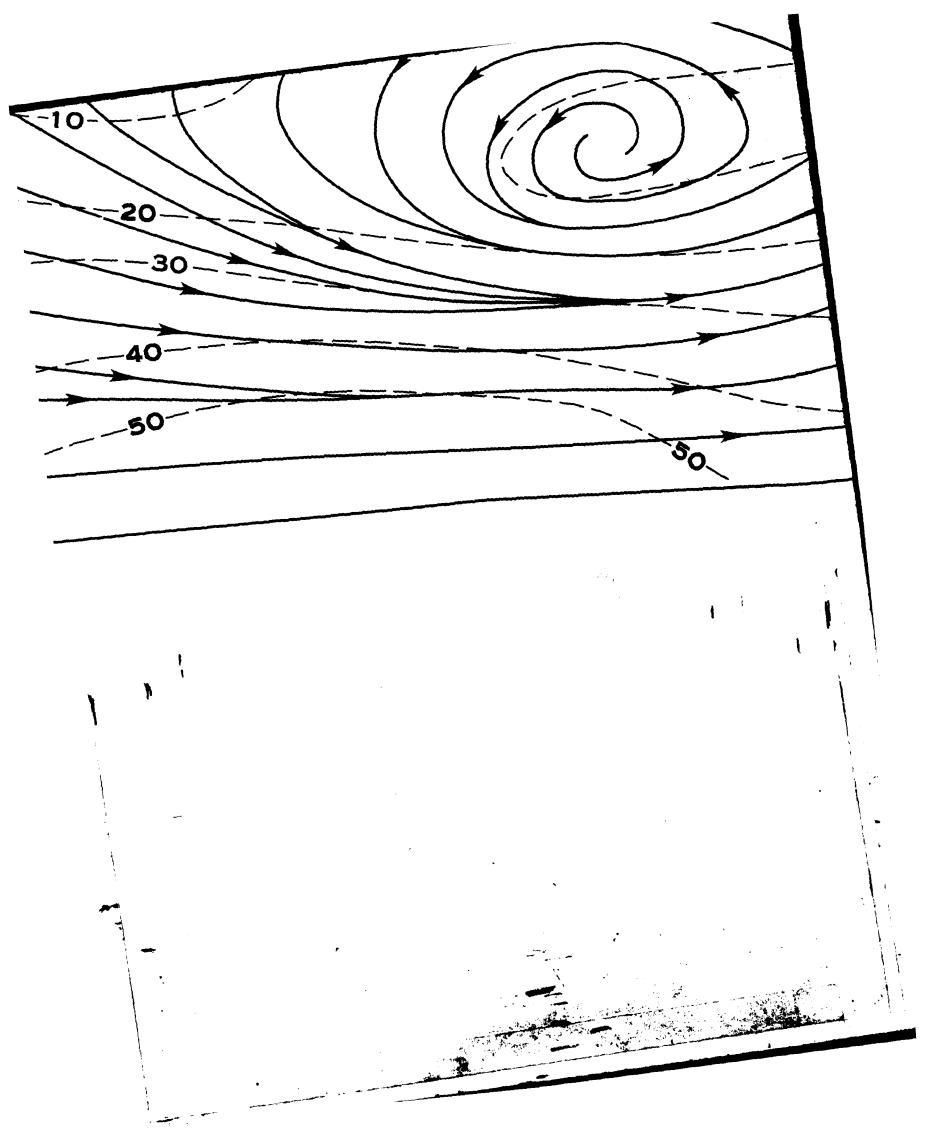
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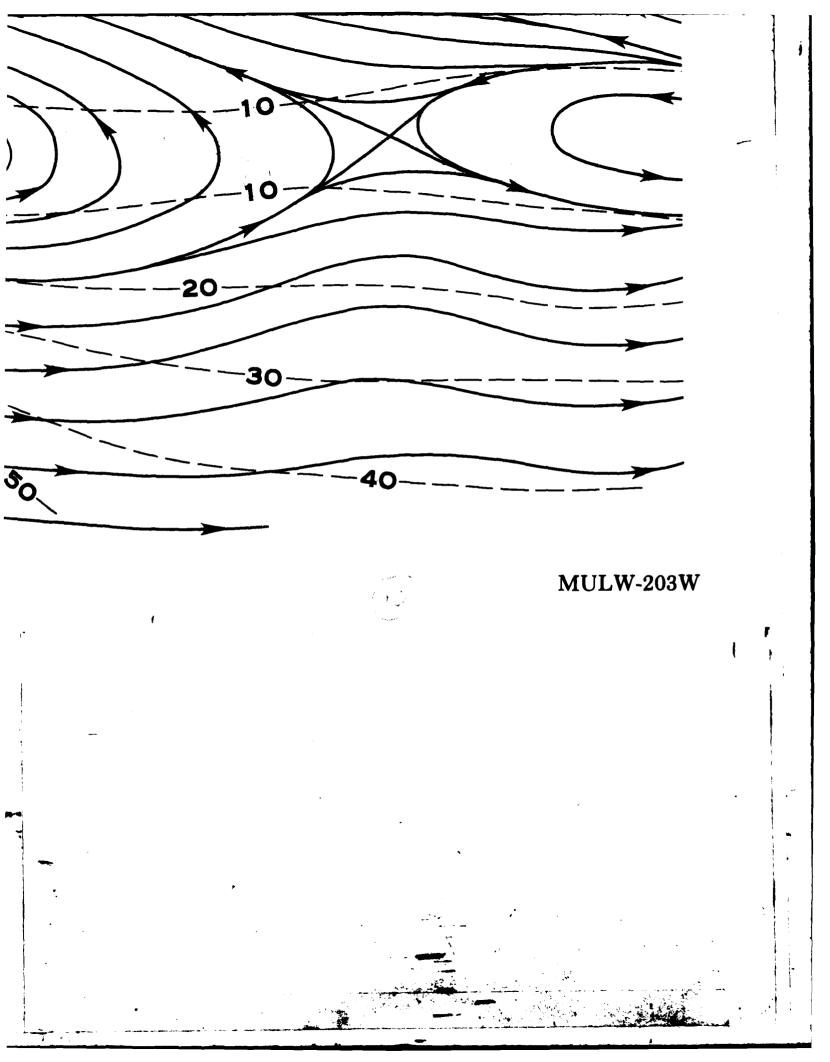


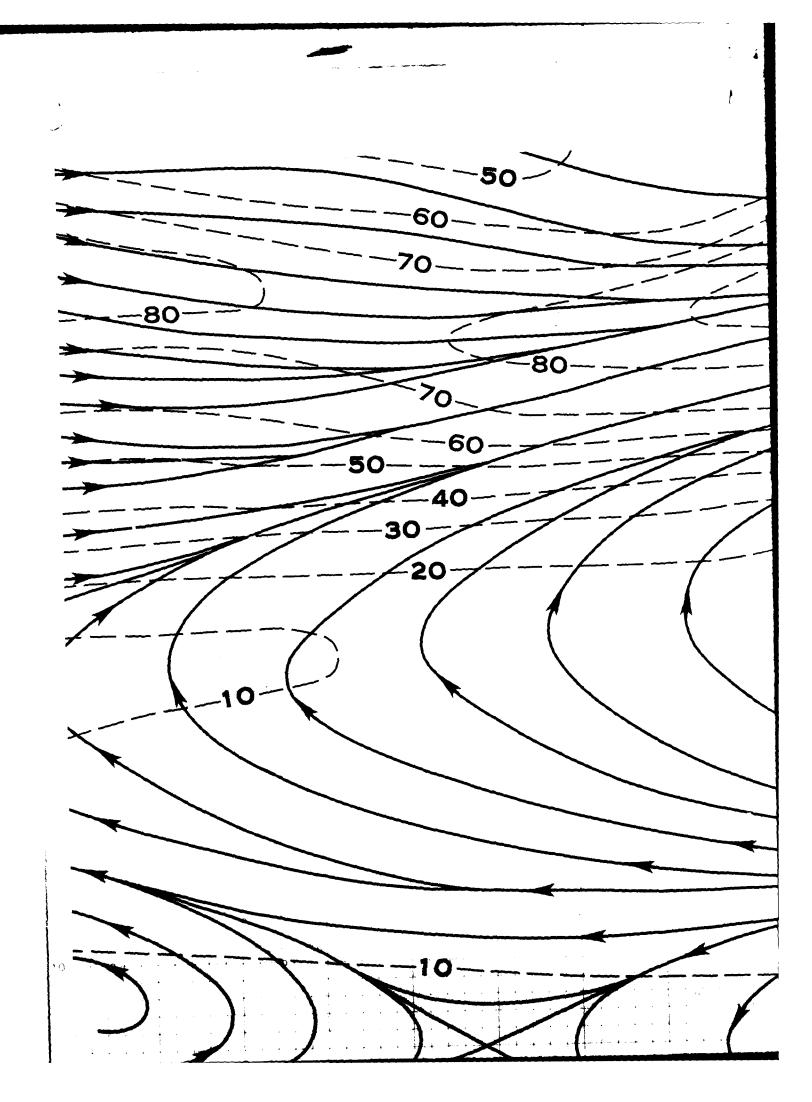








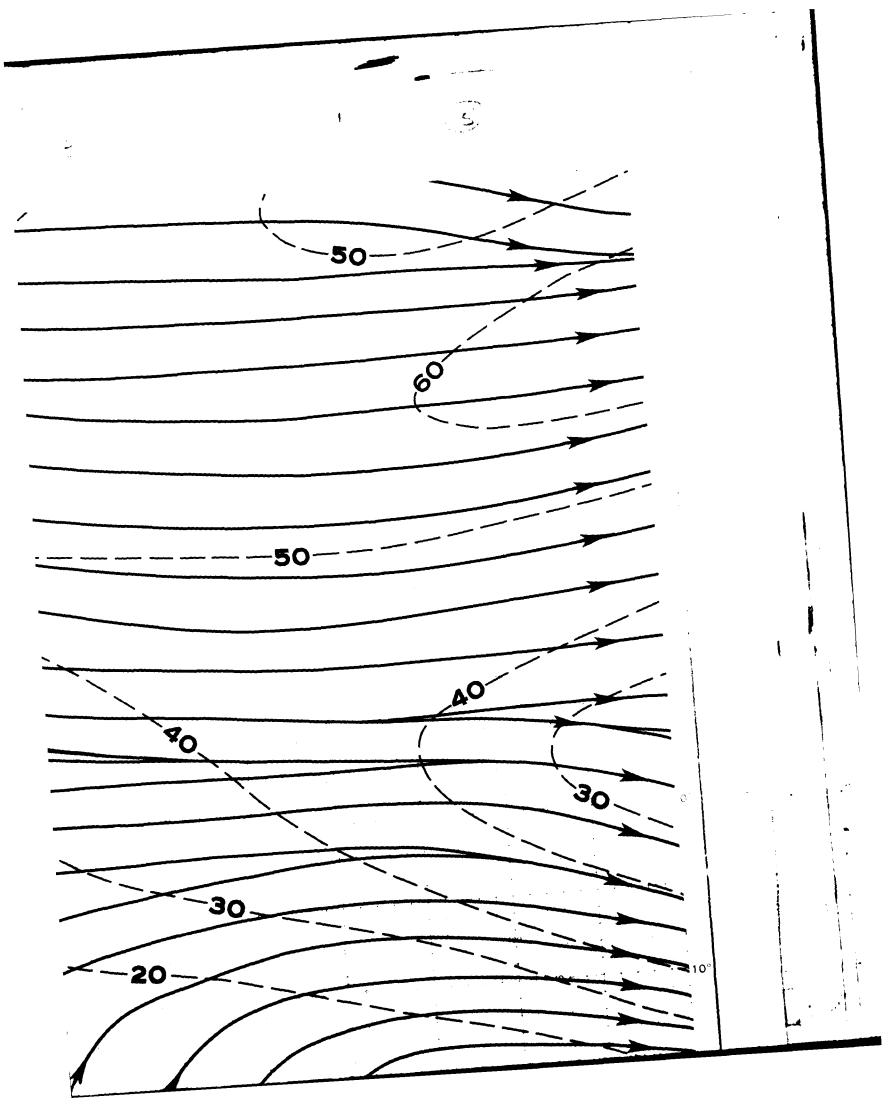


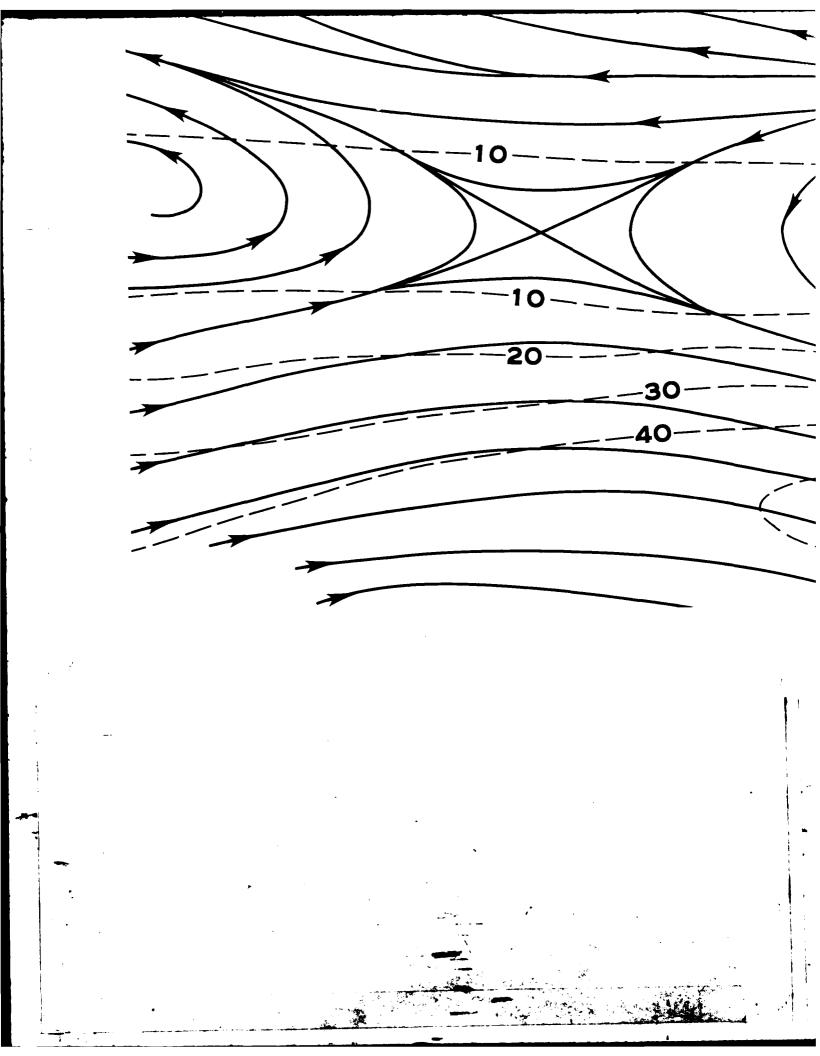


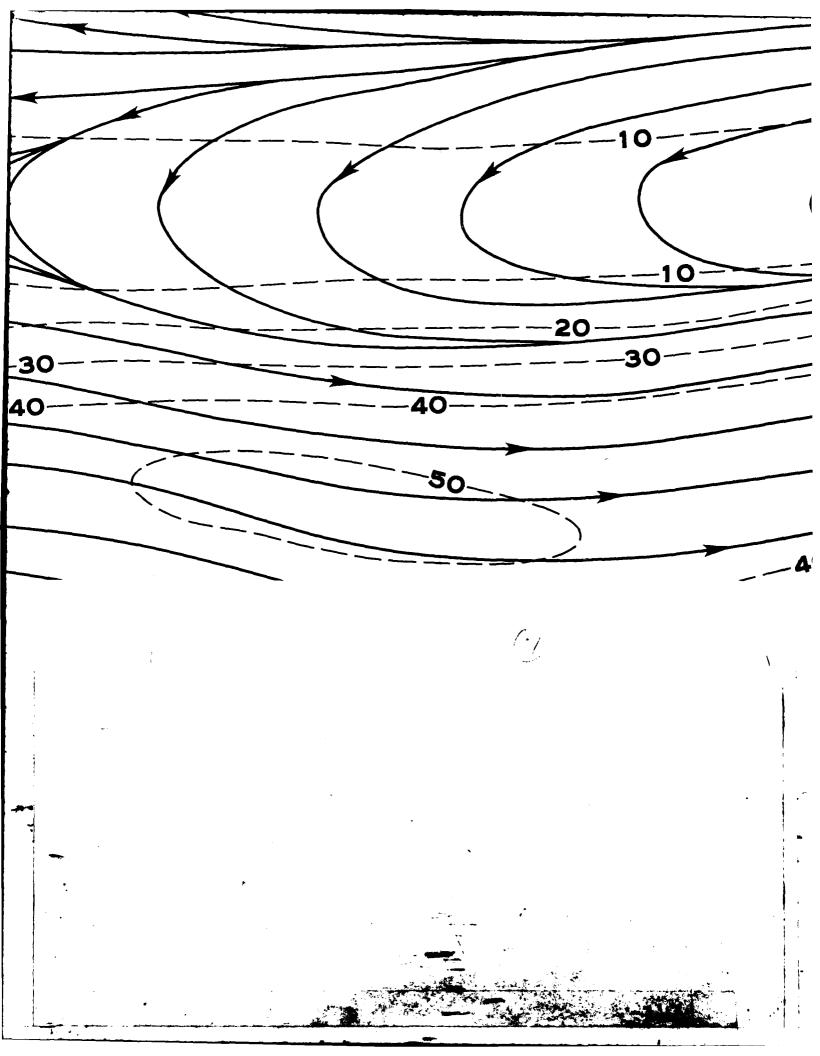
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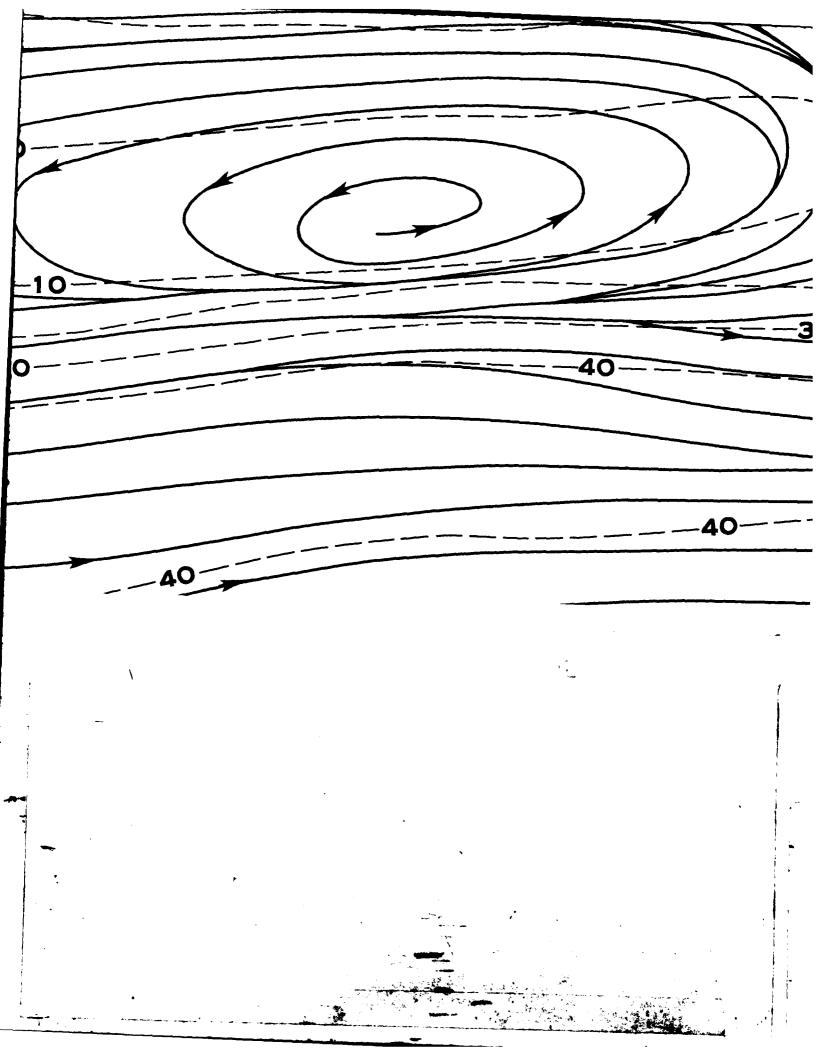
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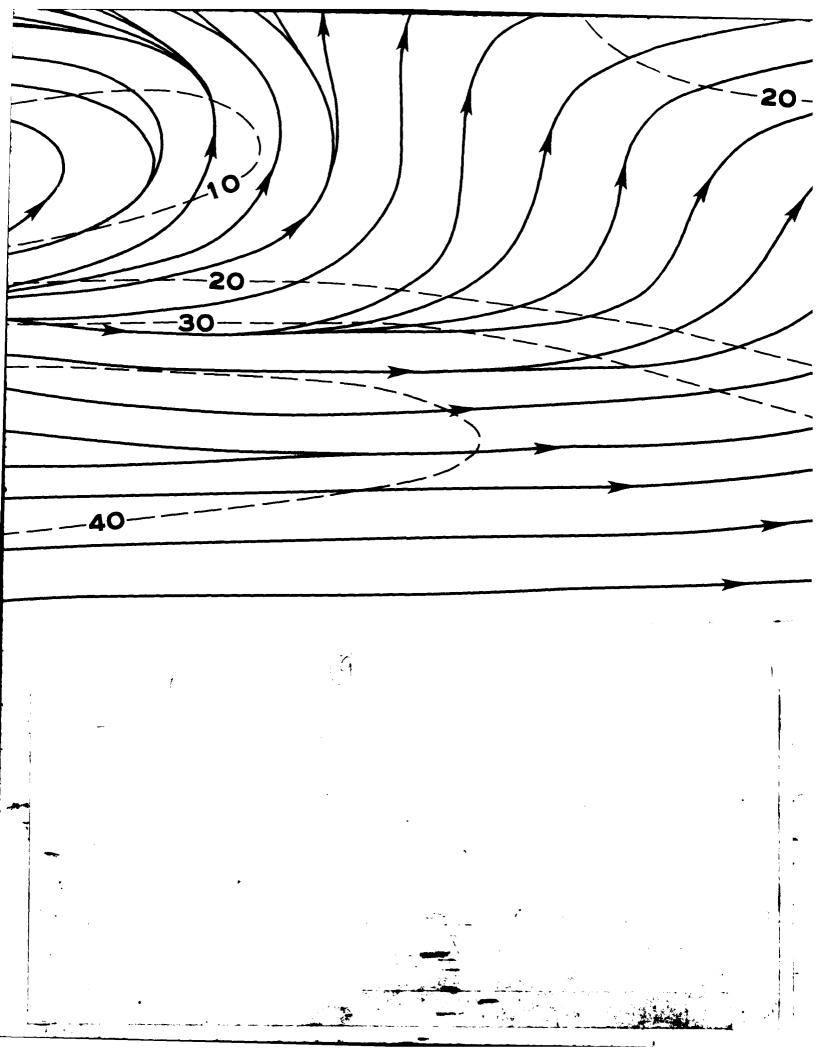
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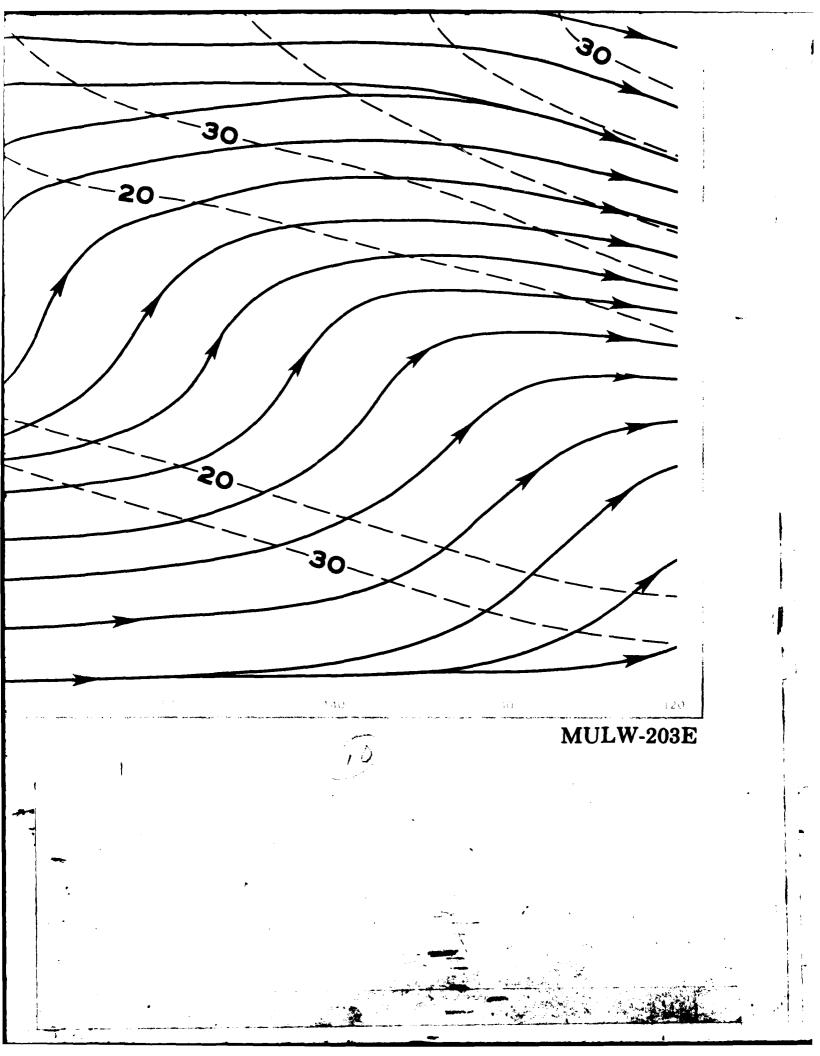


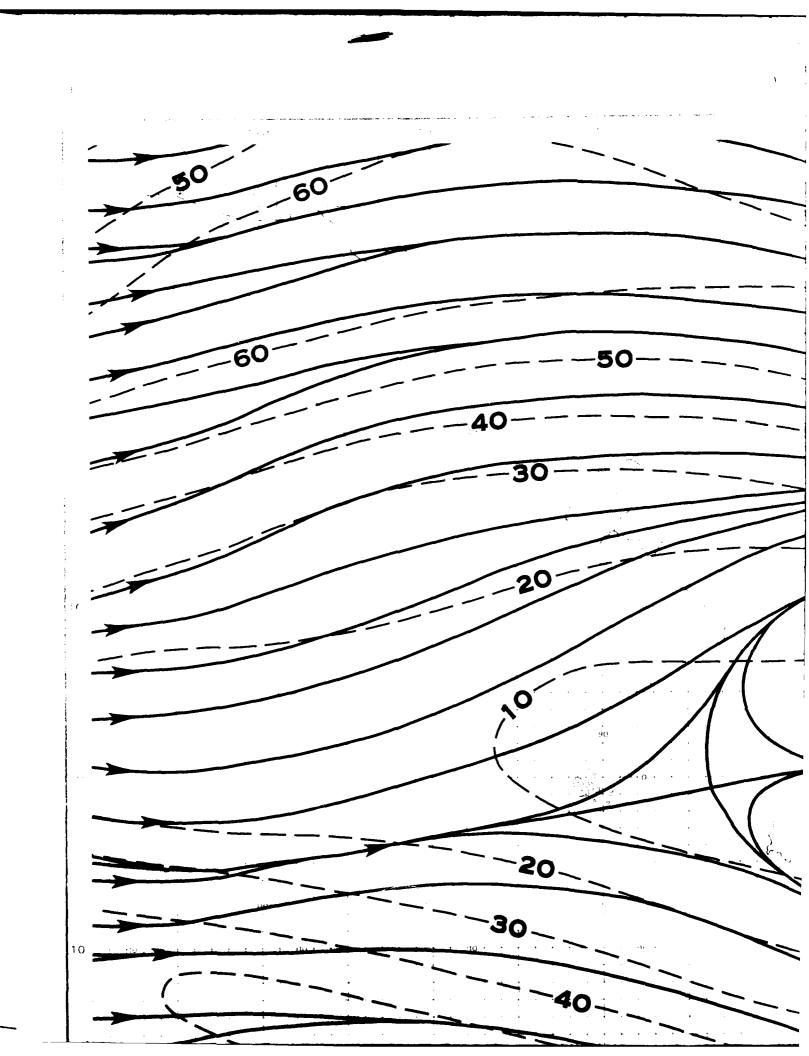




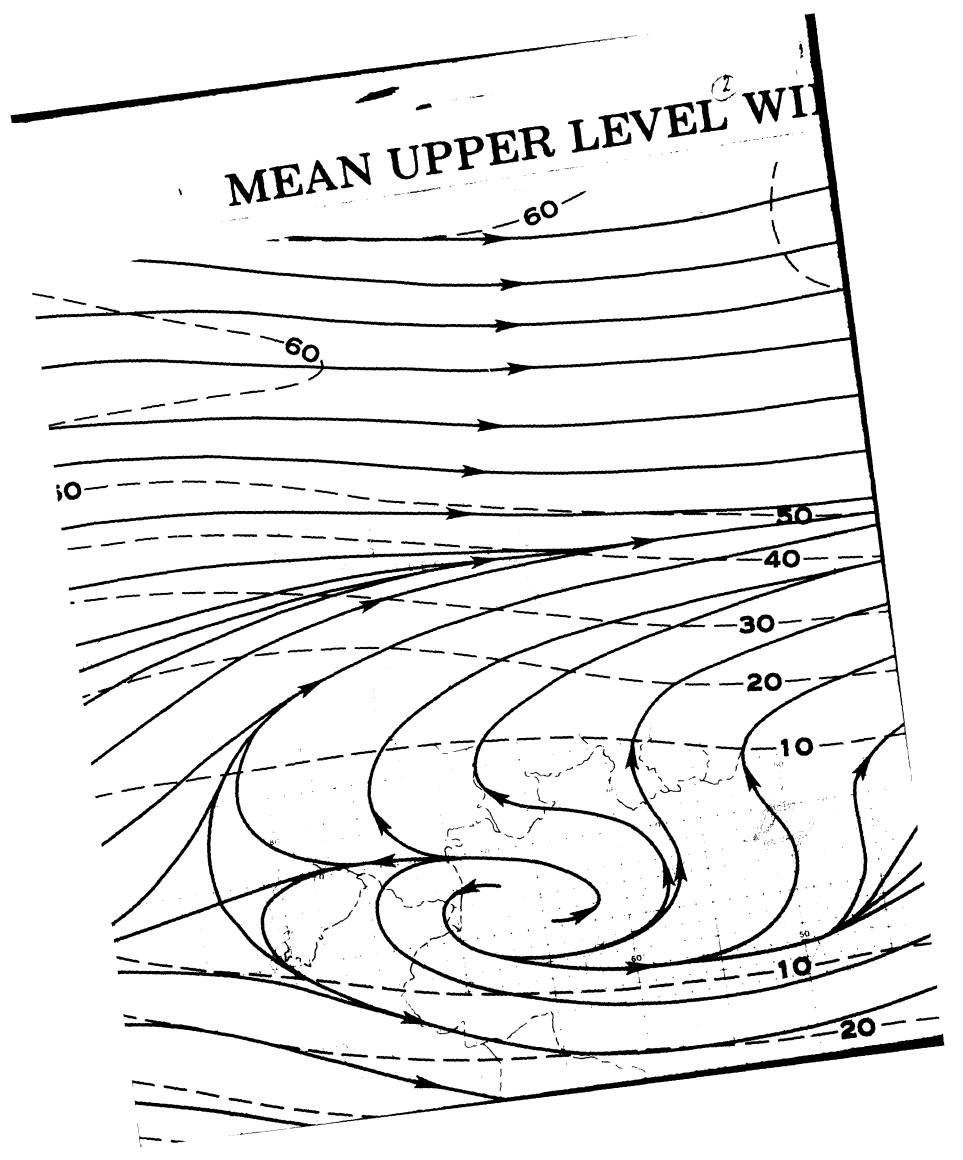




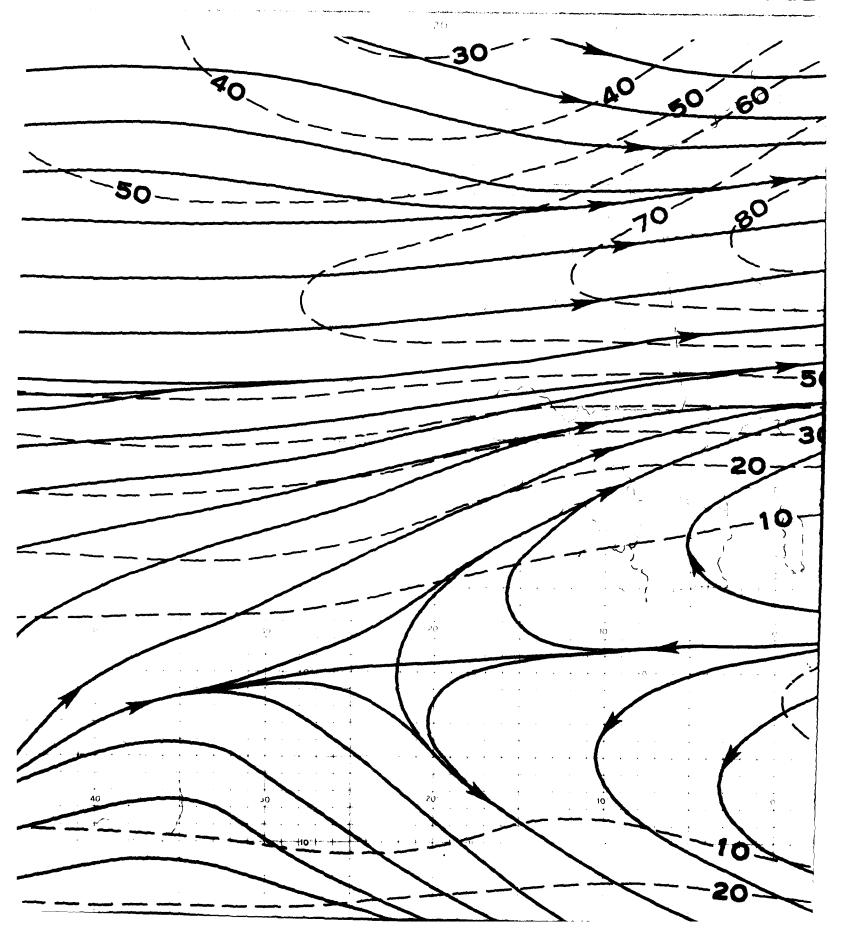




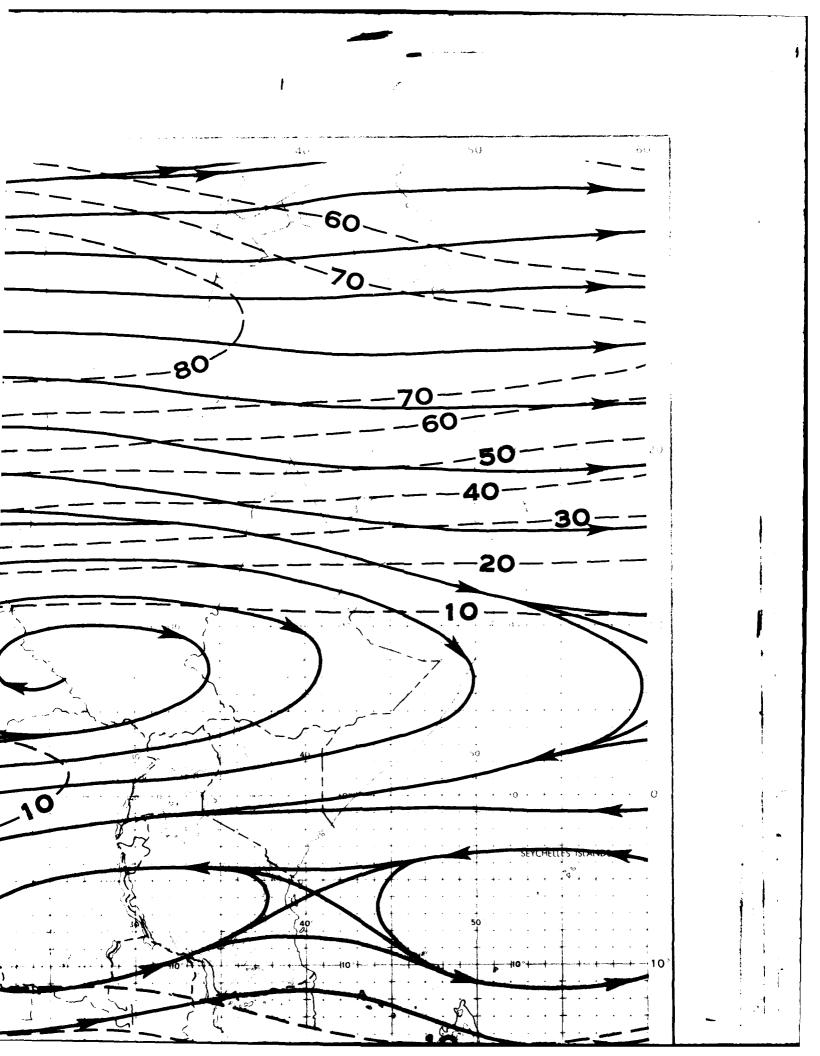
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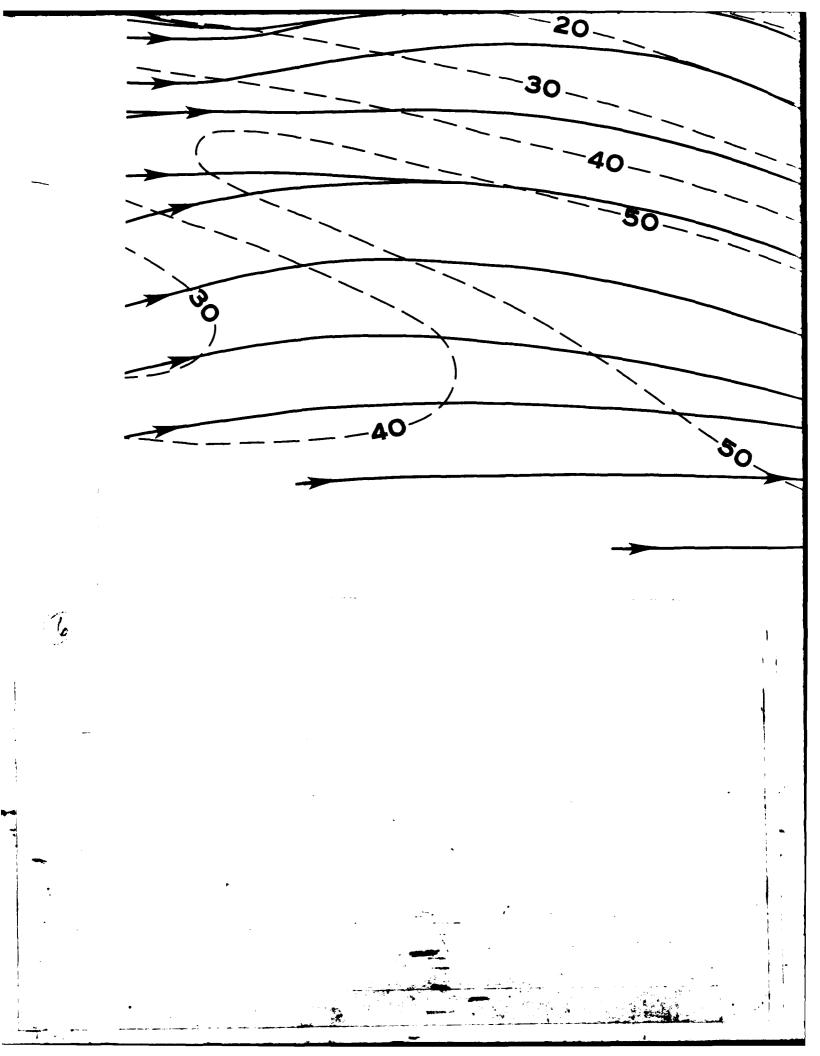


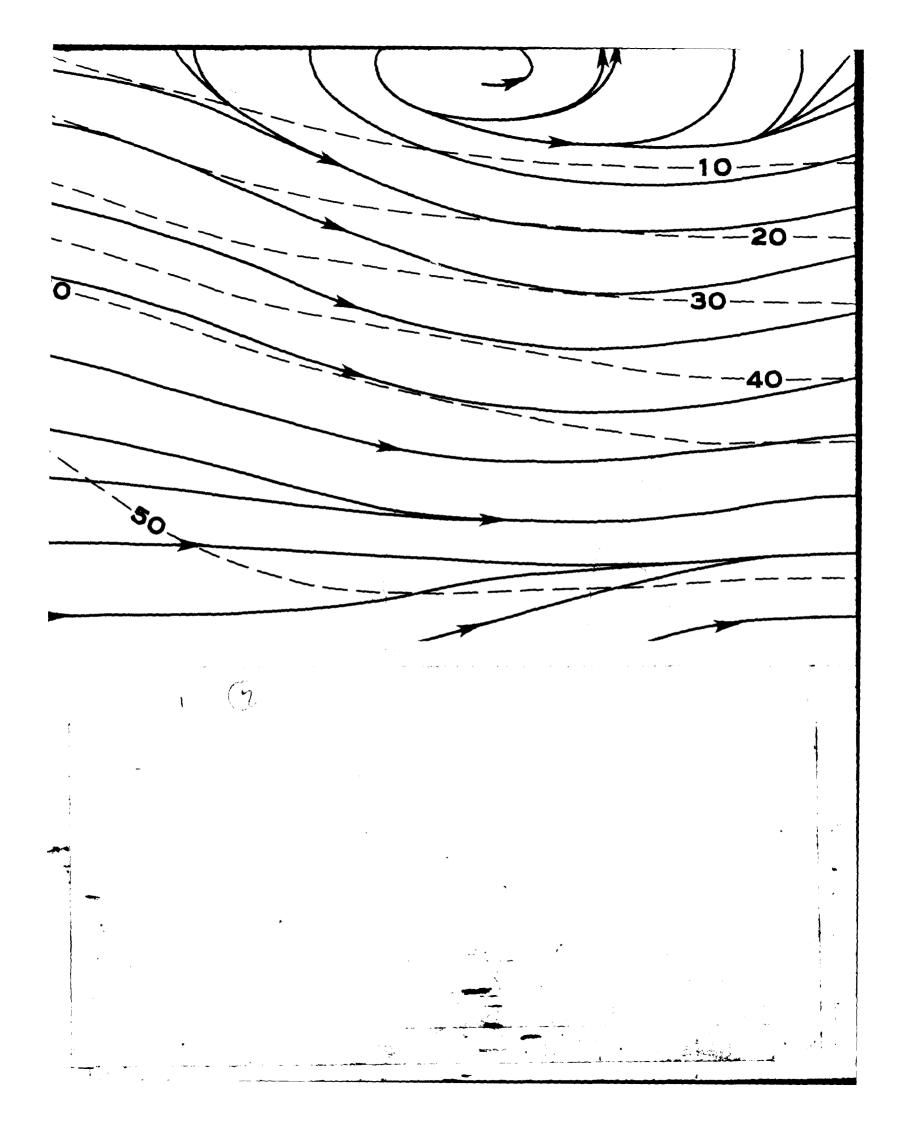
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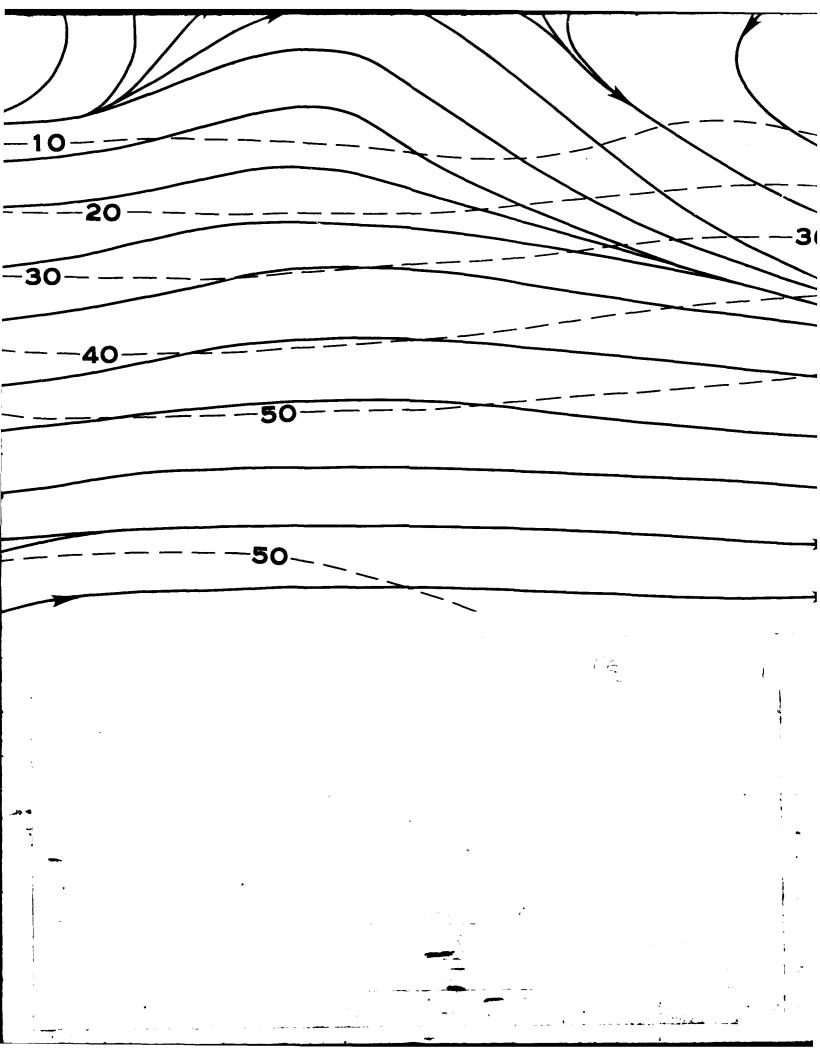


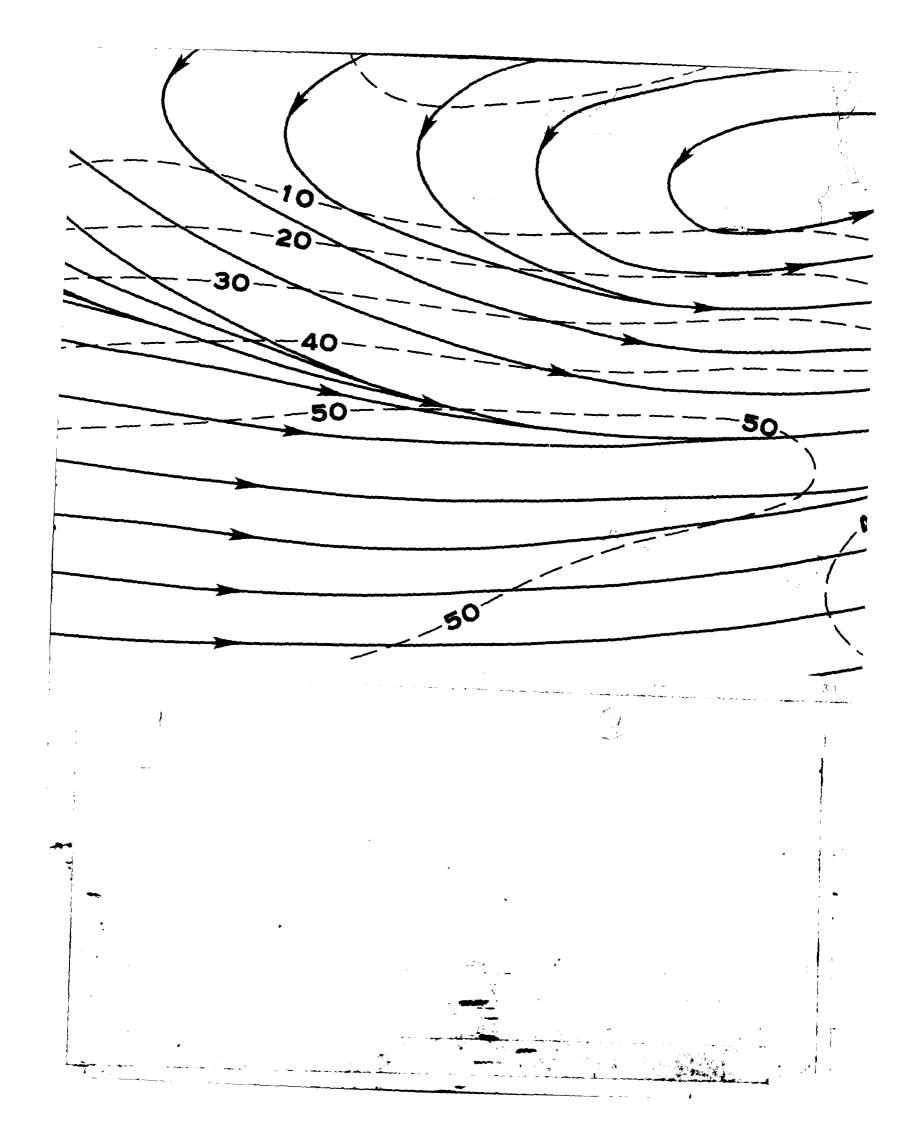
#### CS - APRIL 200mb 60

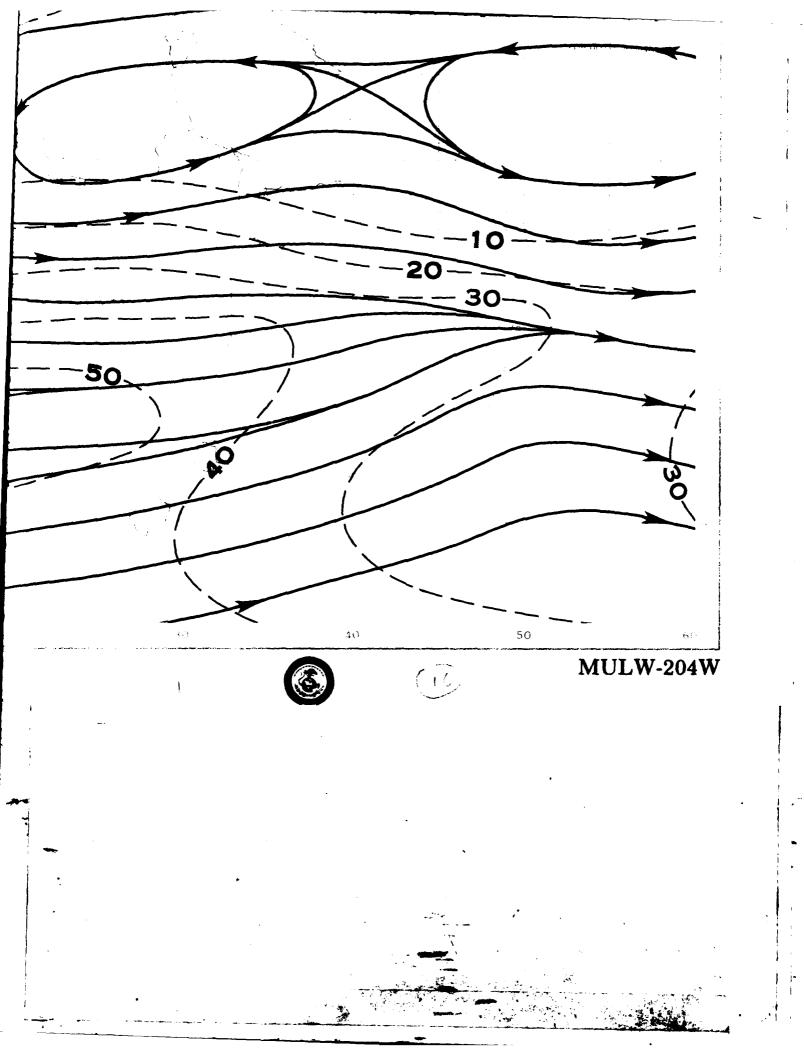




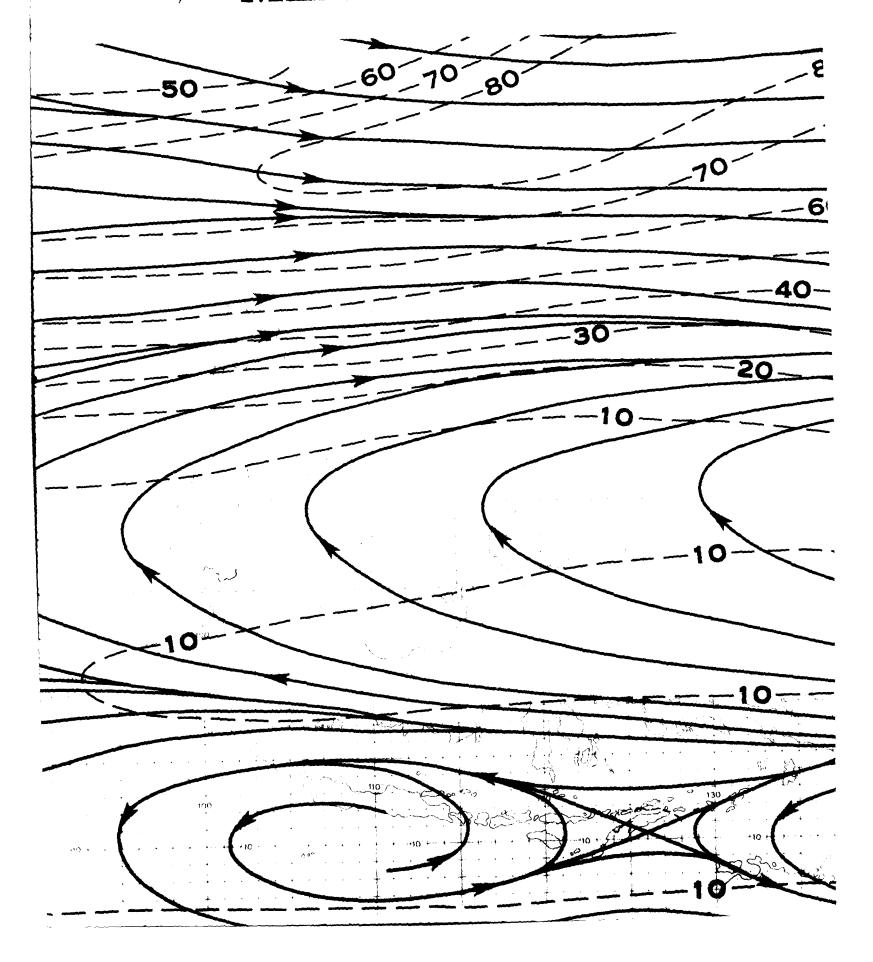






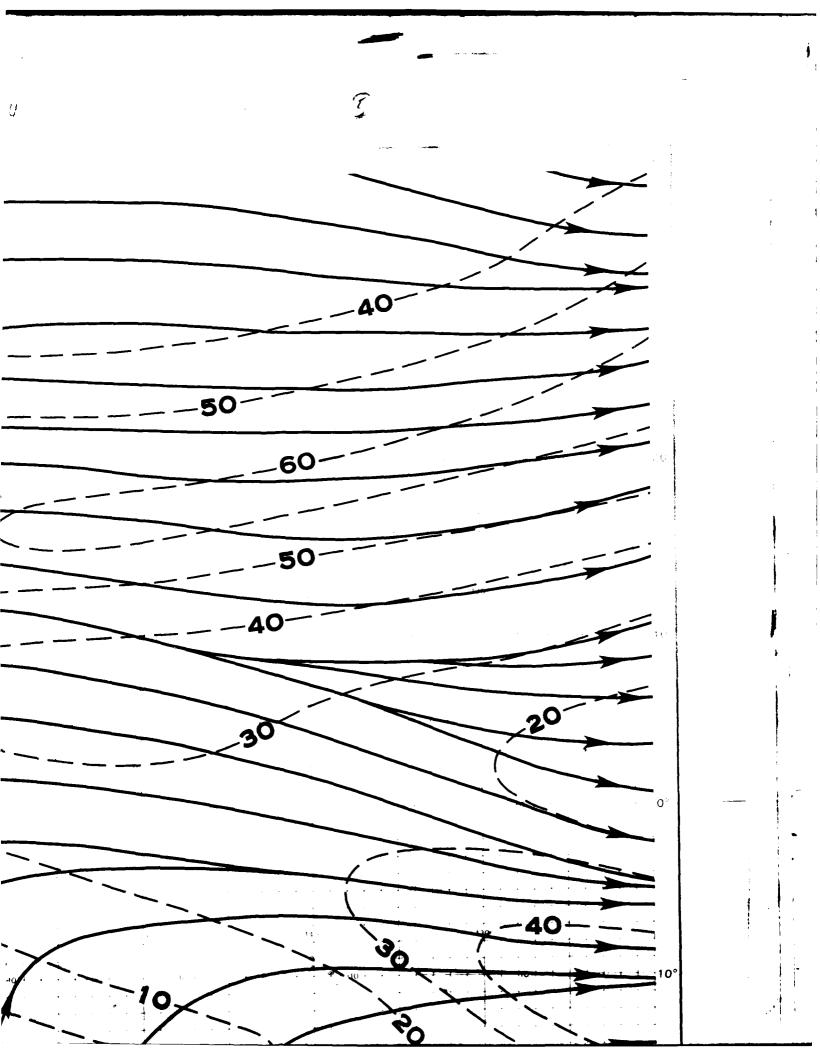


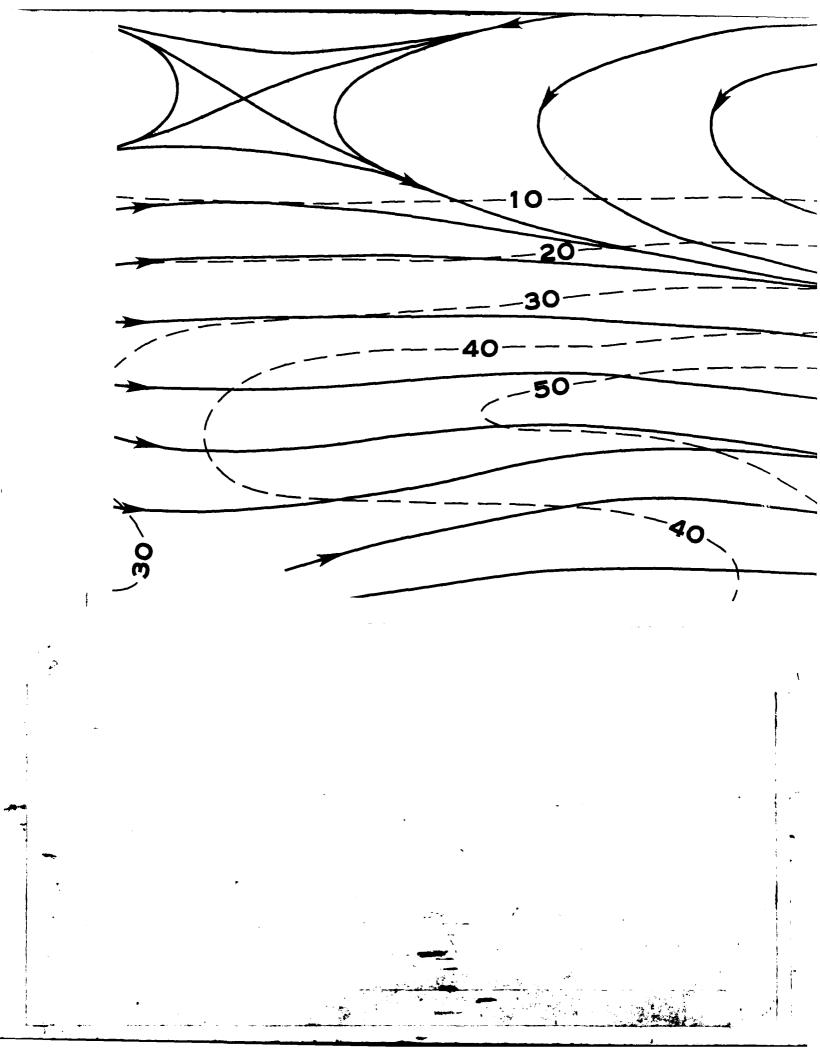
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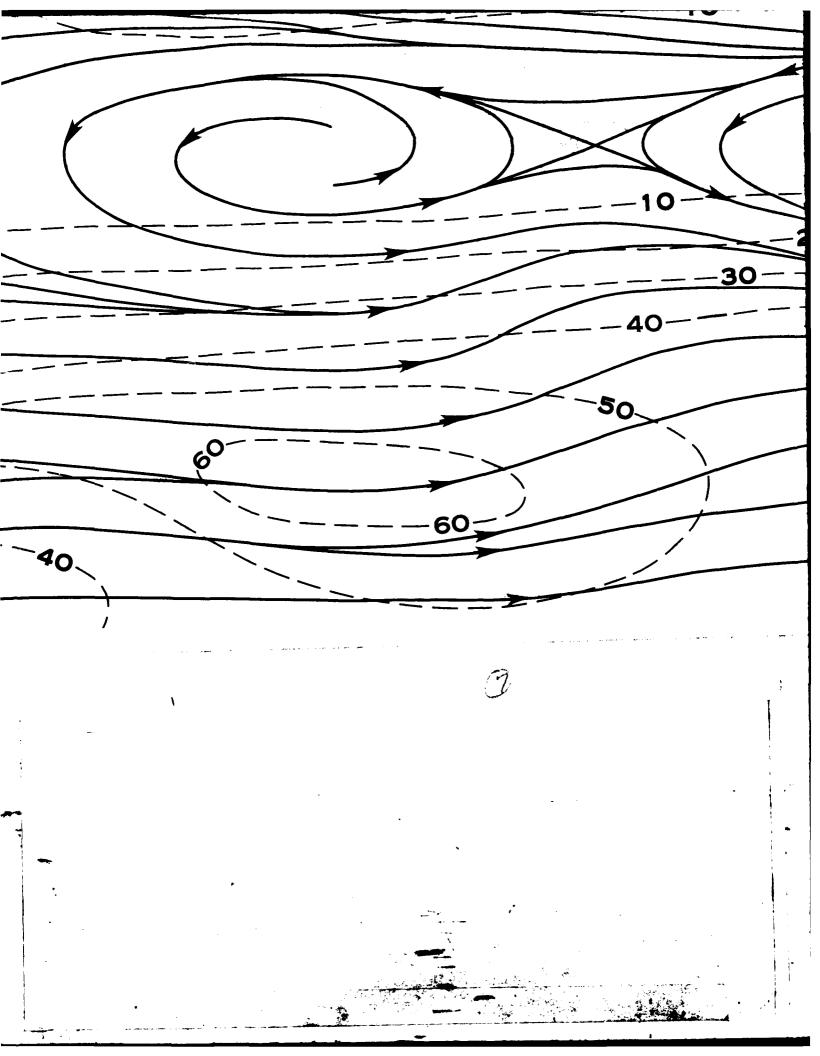


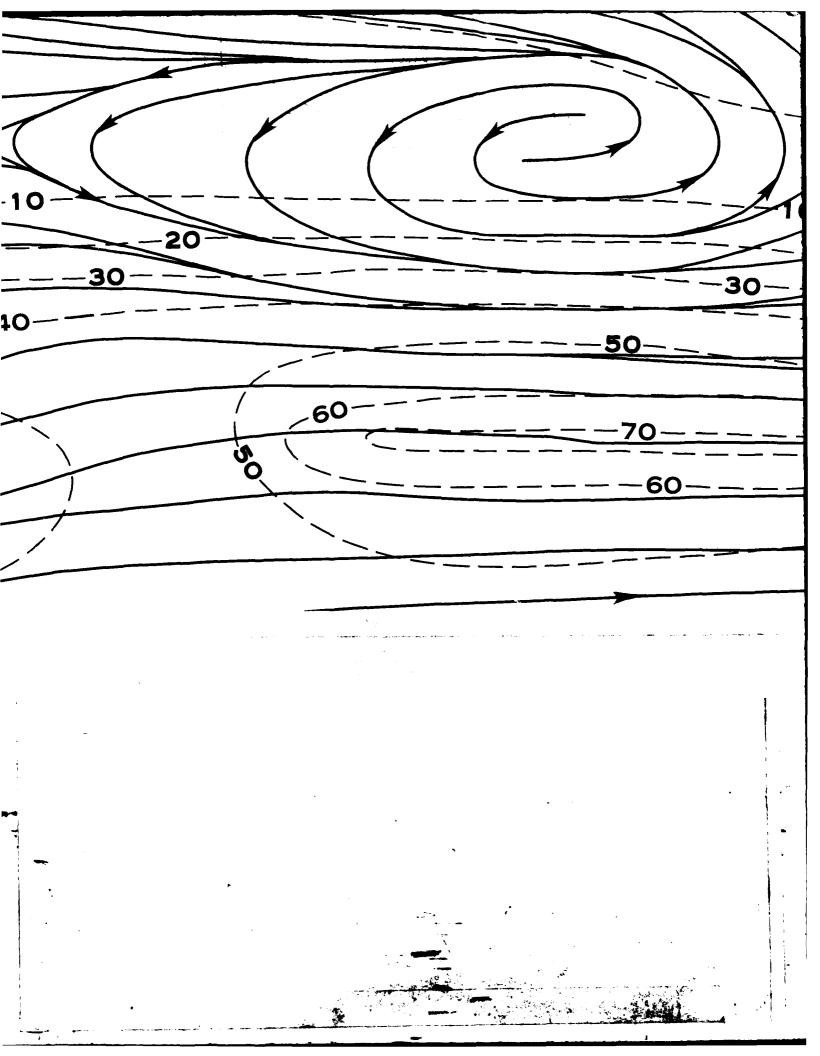
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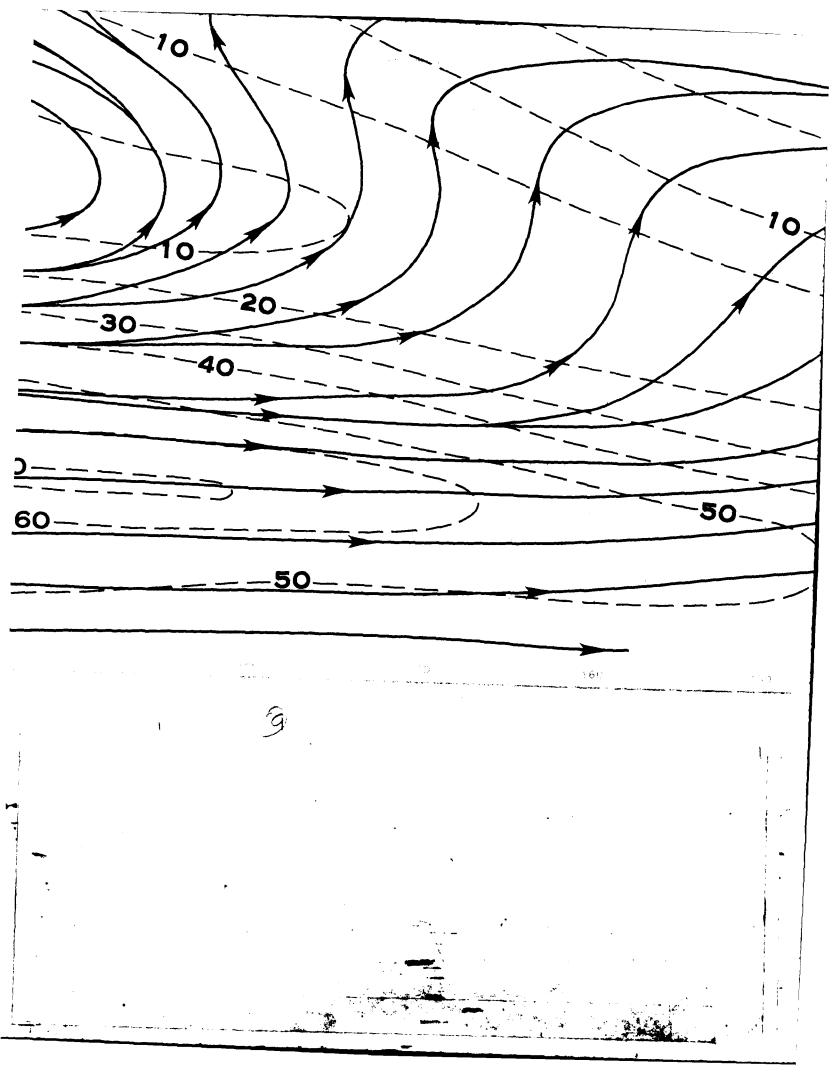
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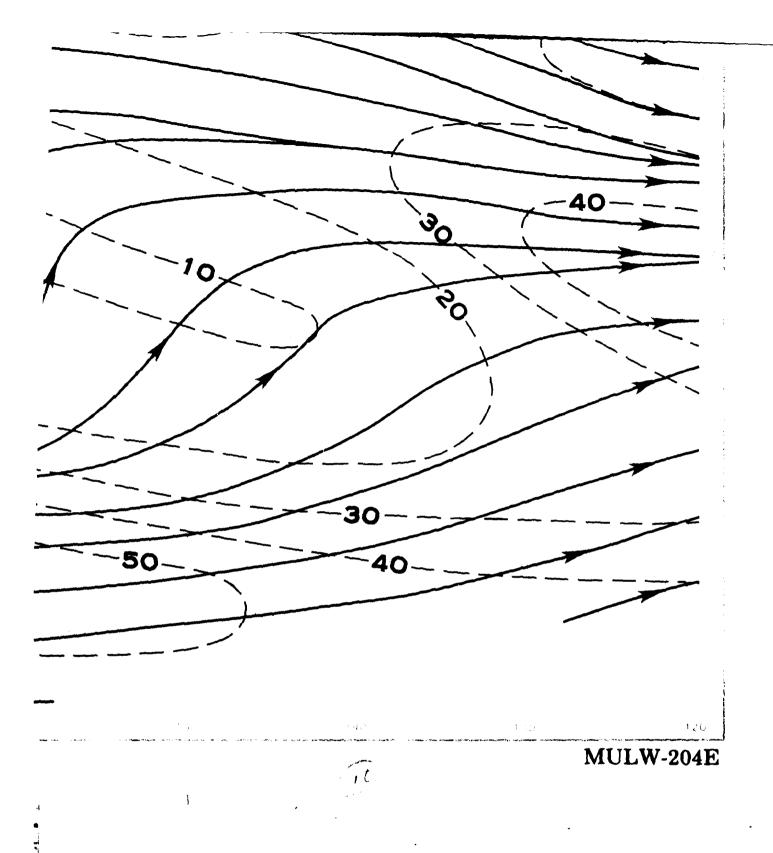


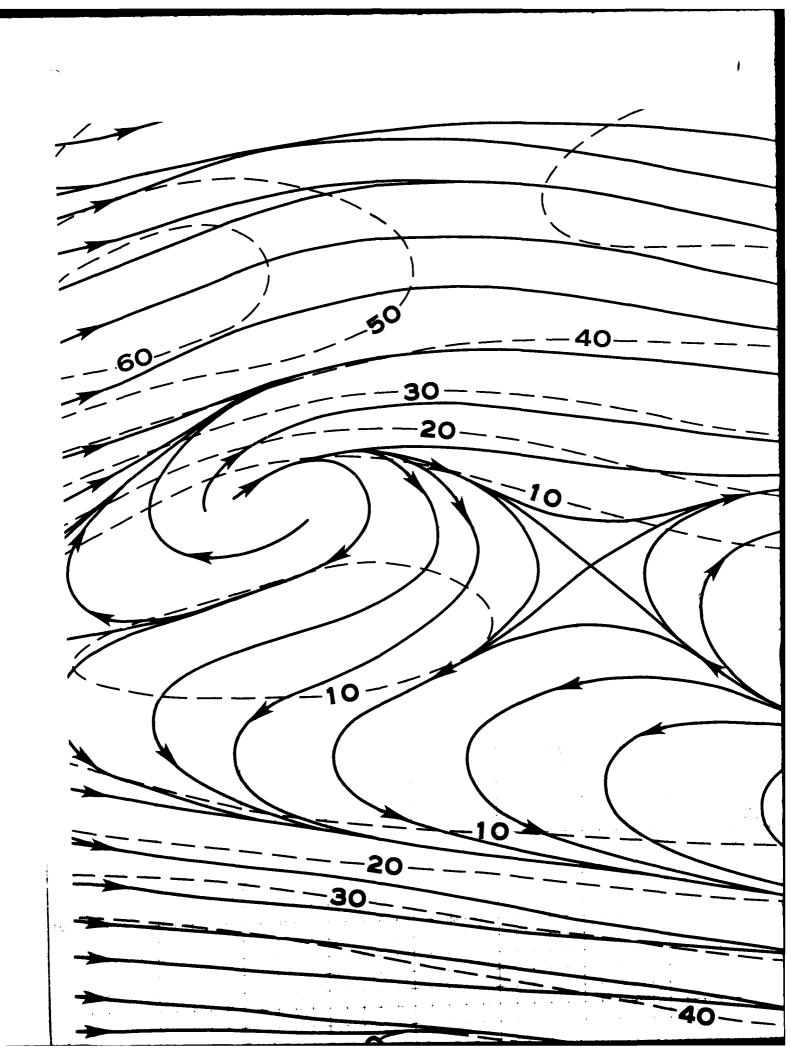


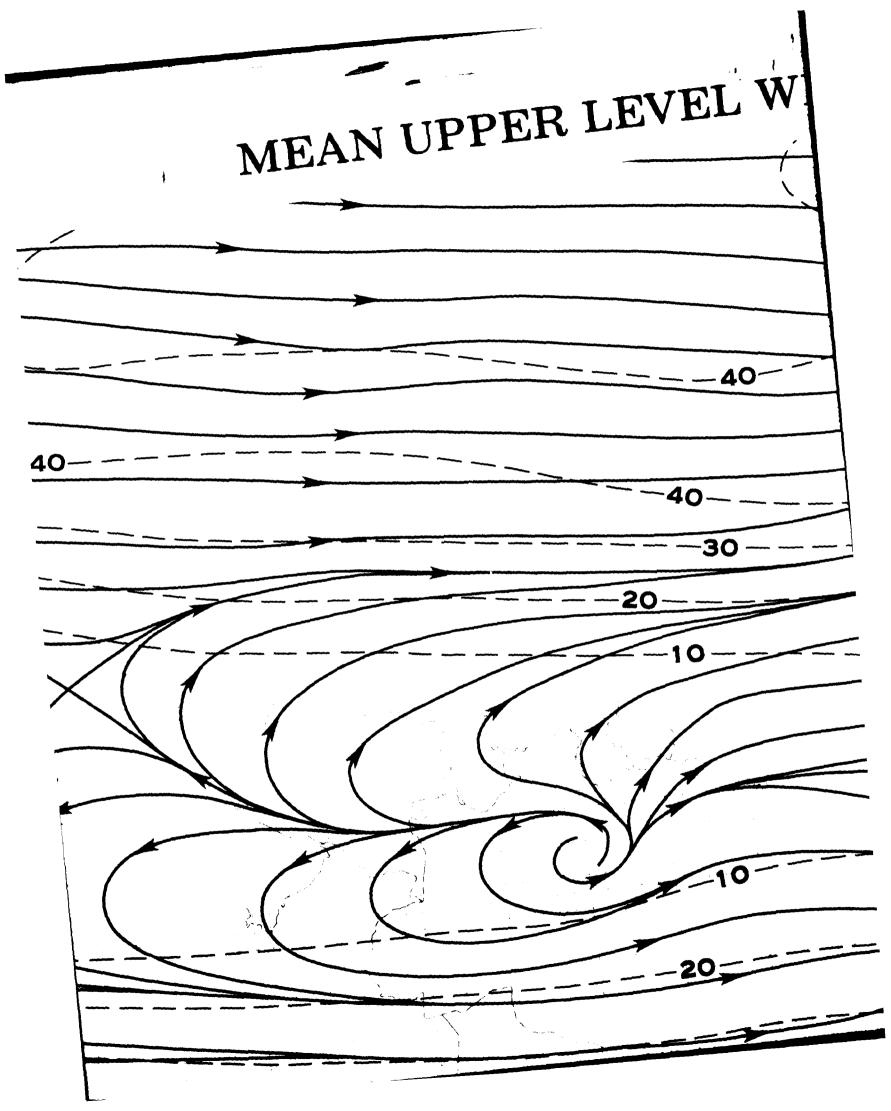




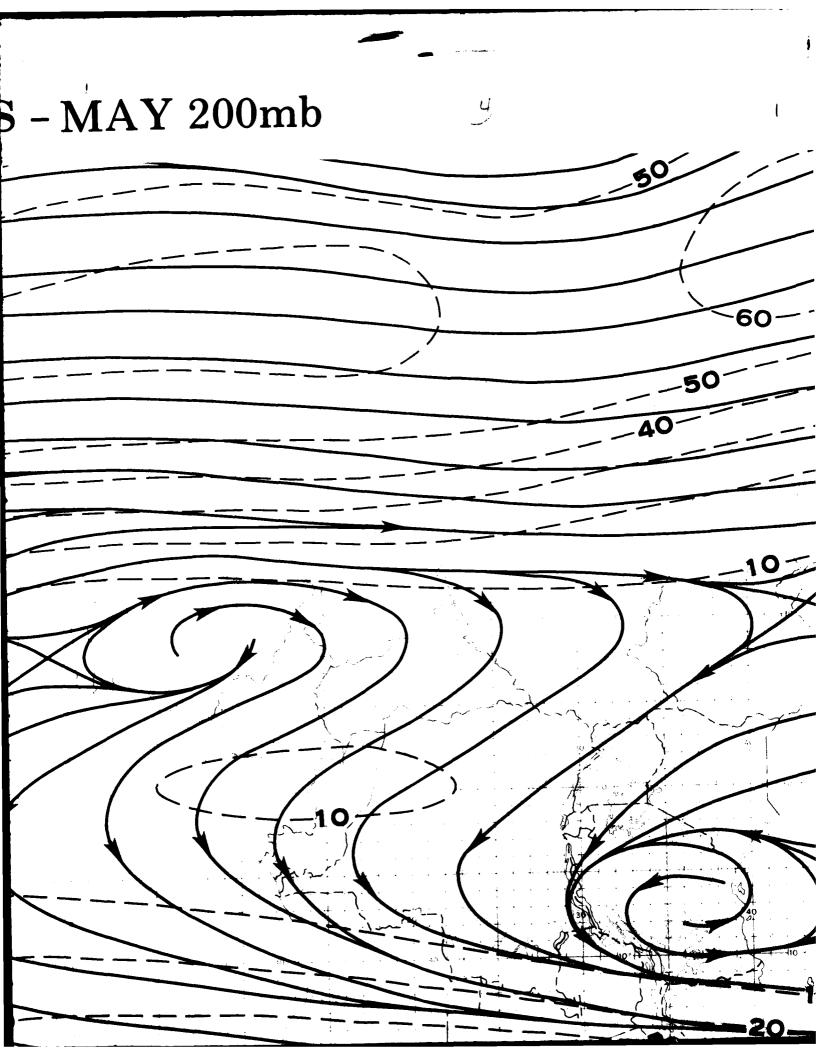


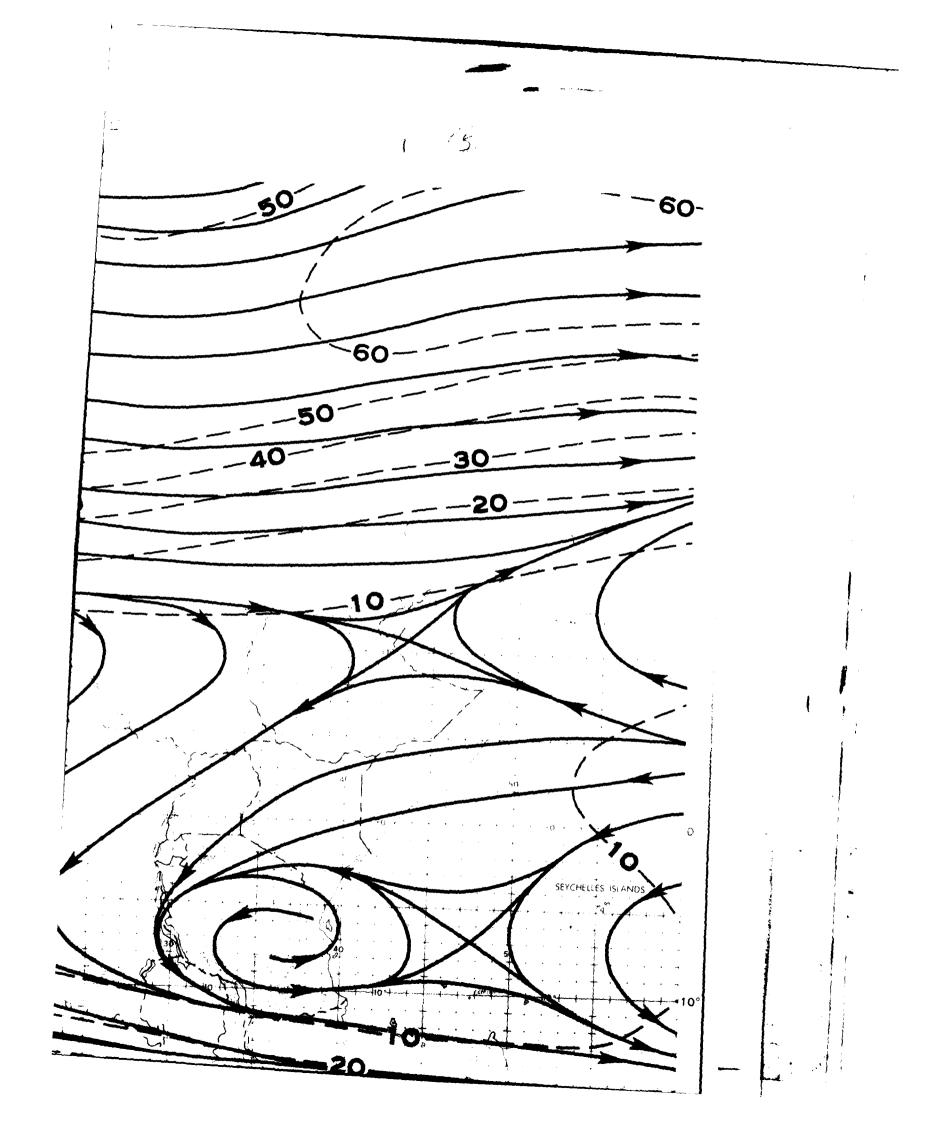


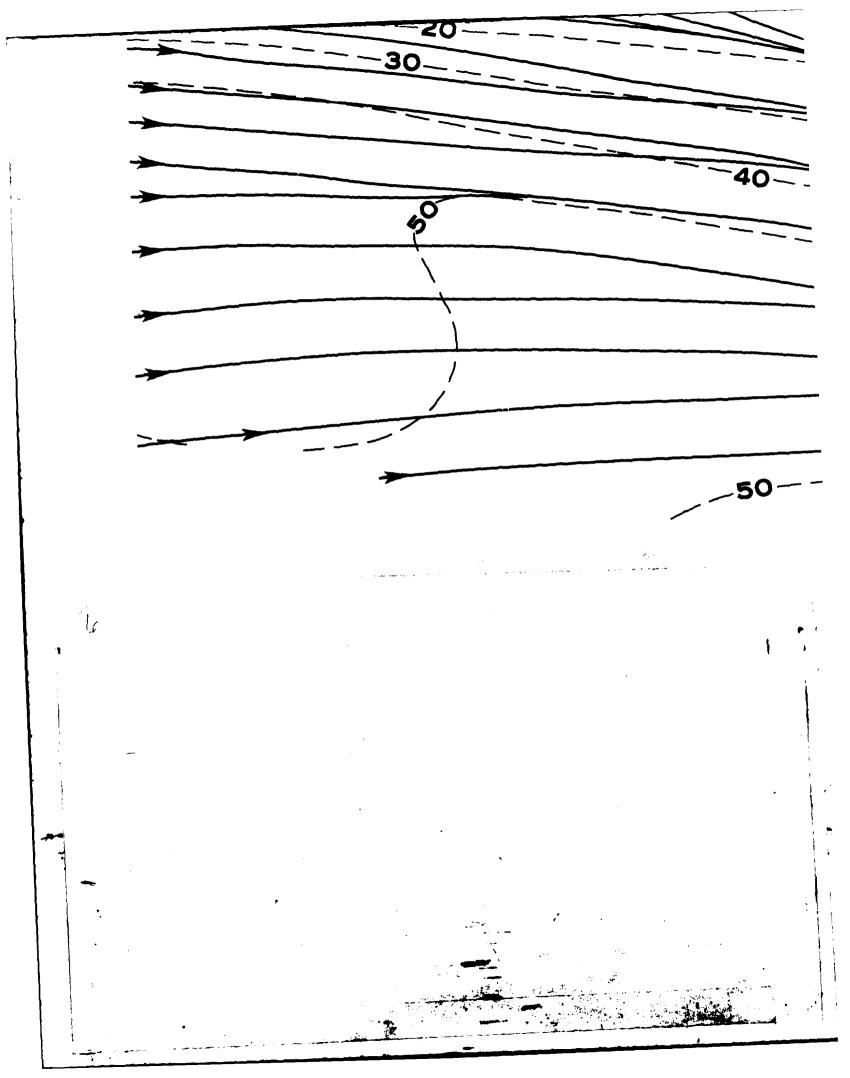


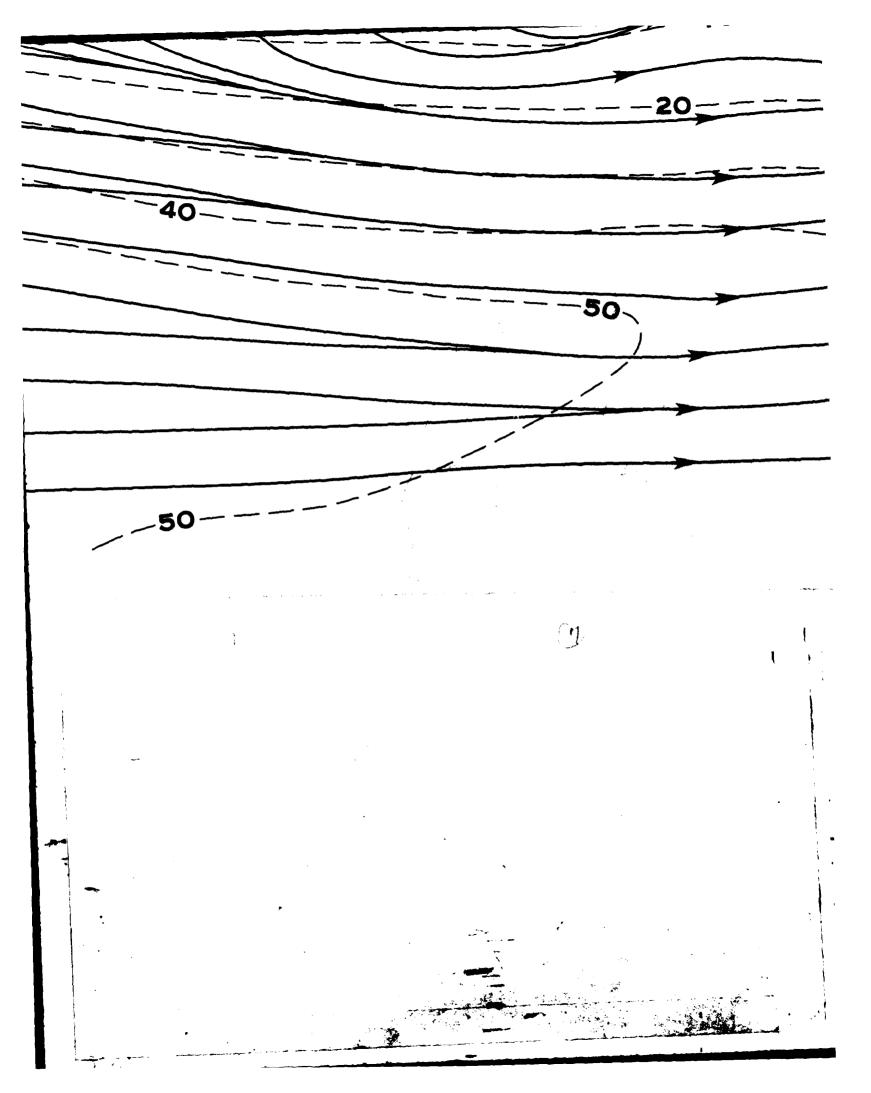


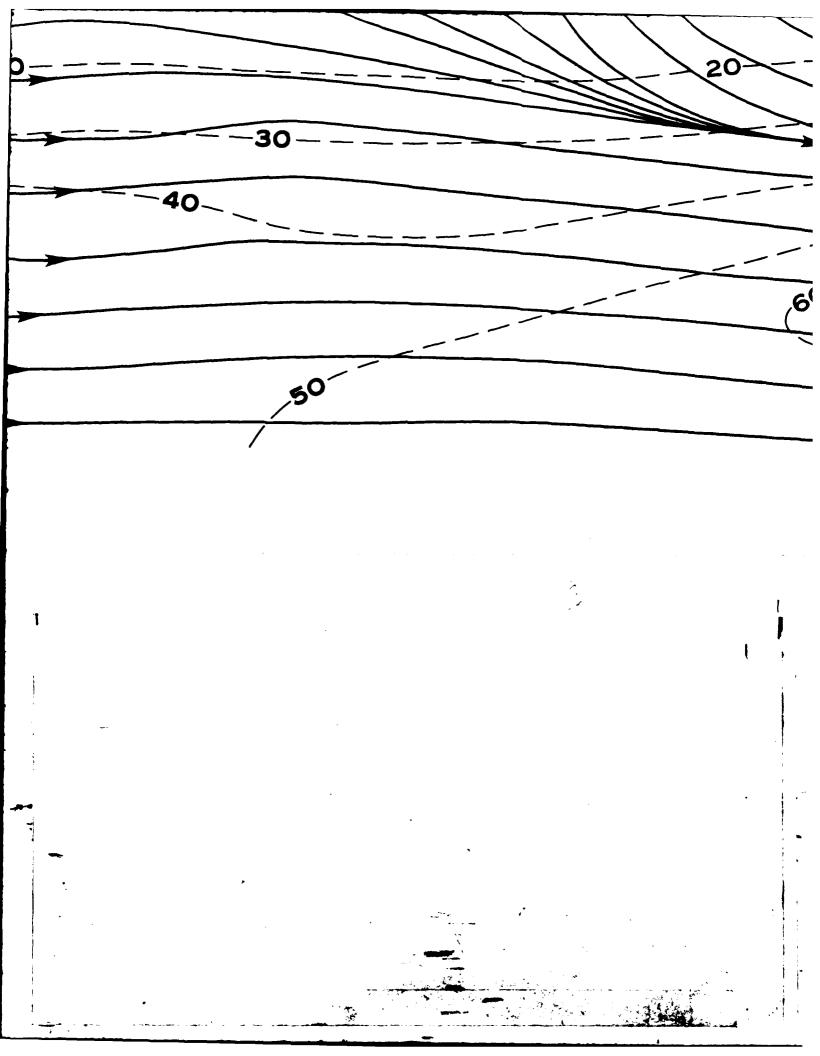
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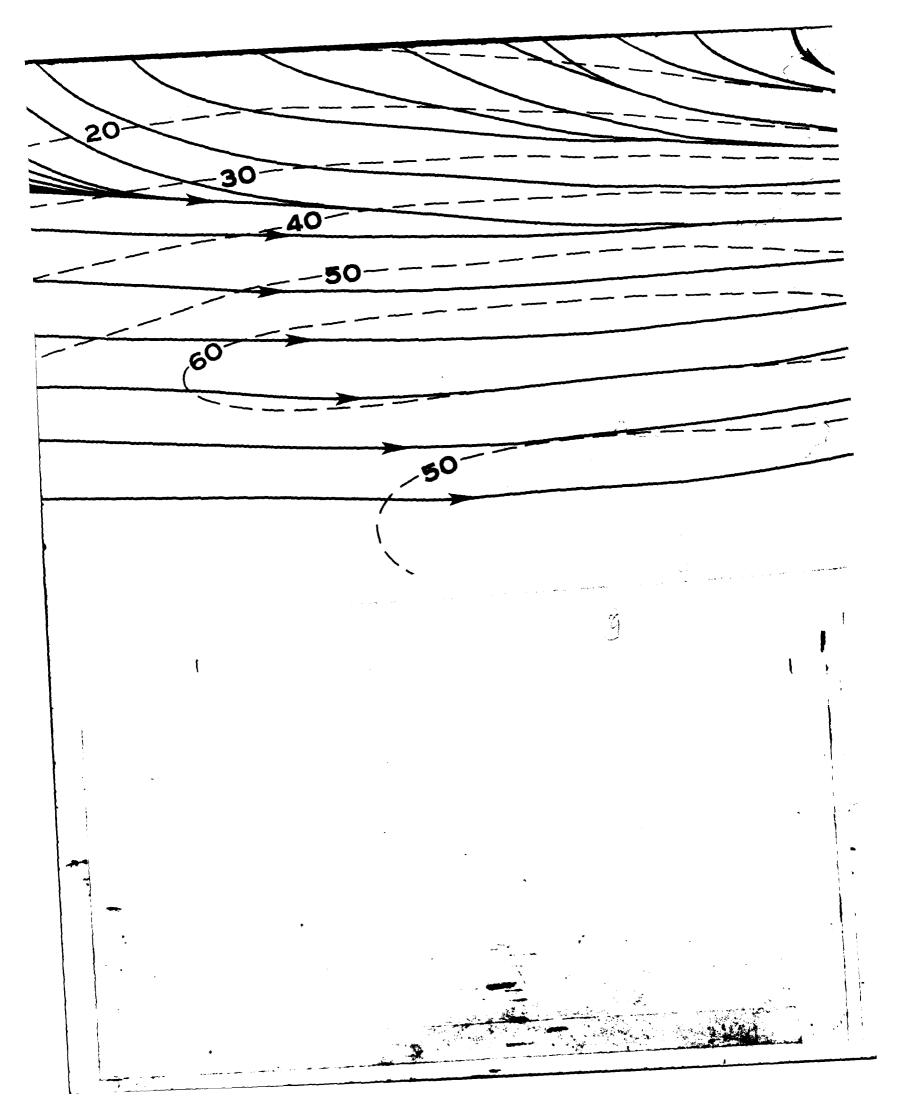


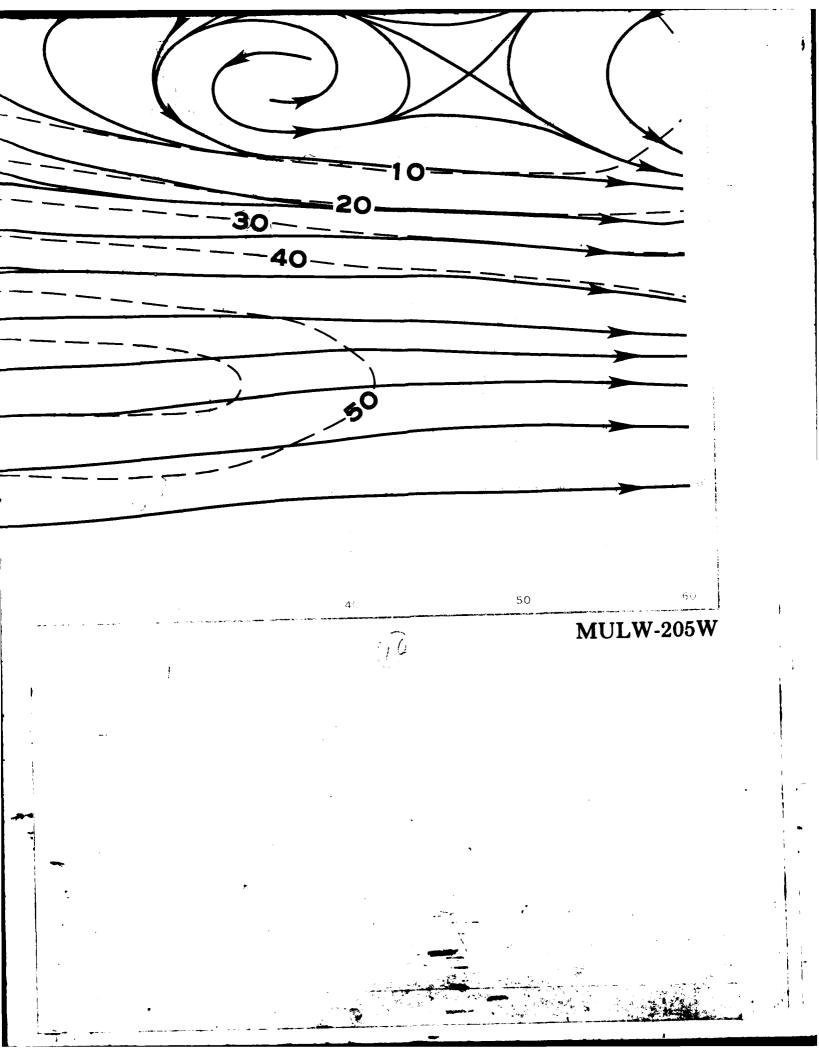


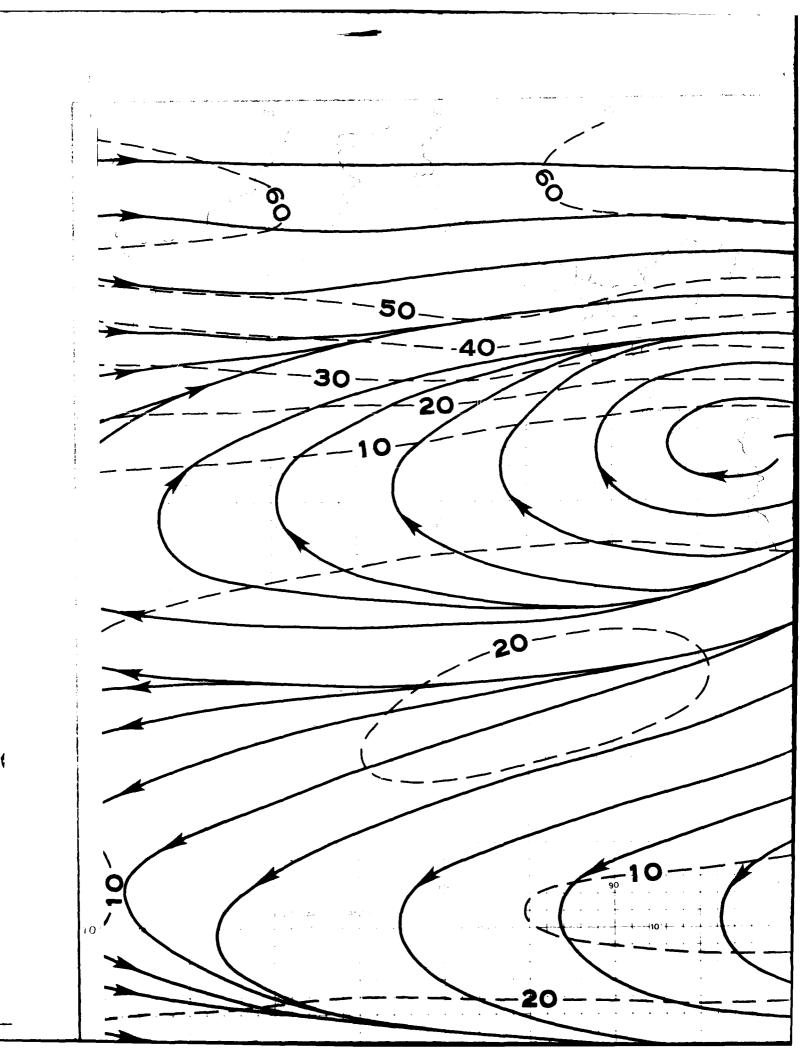










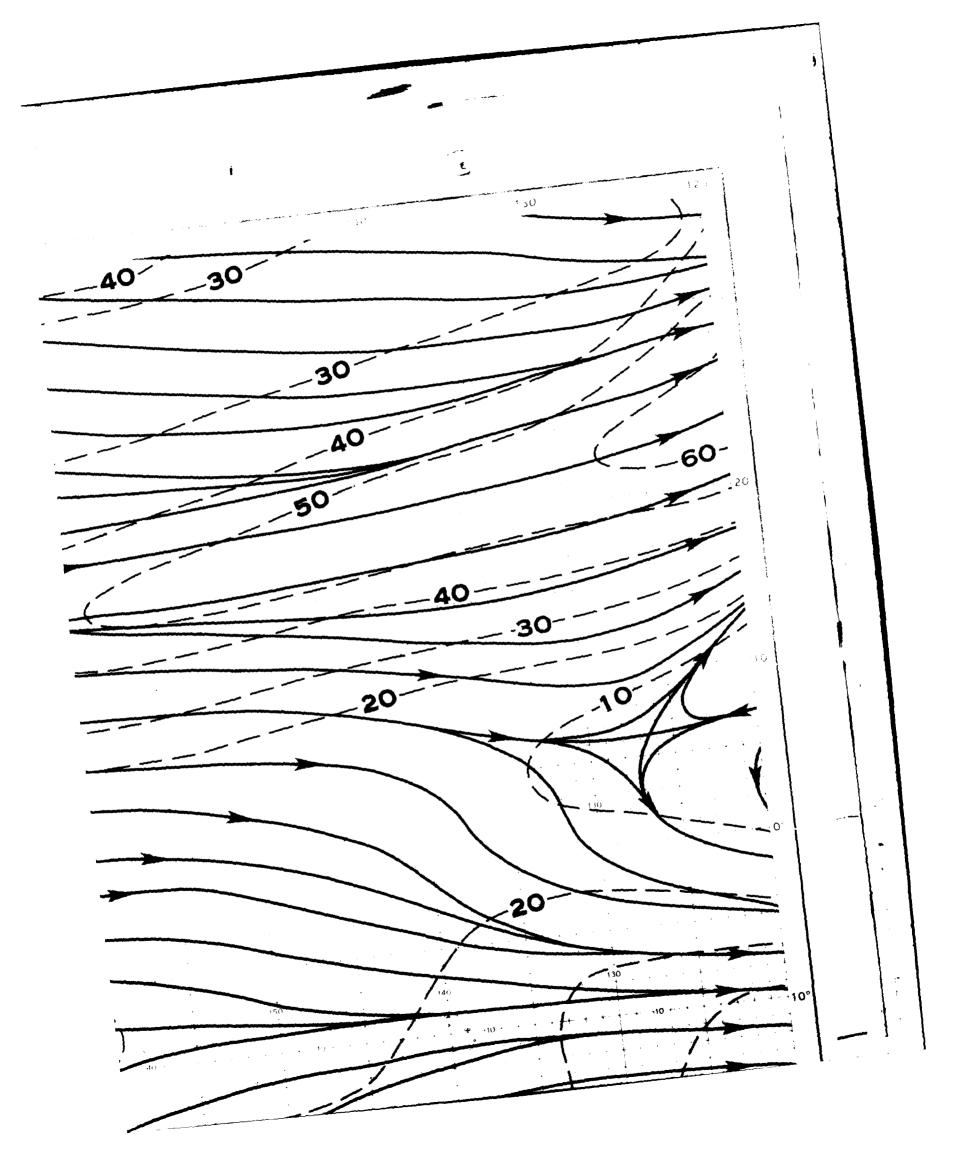


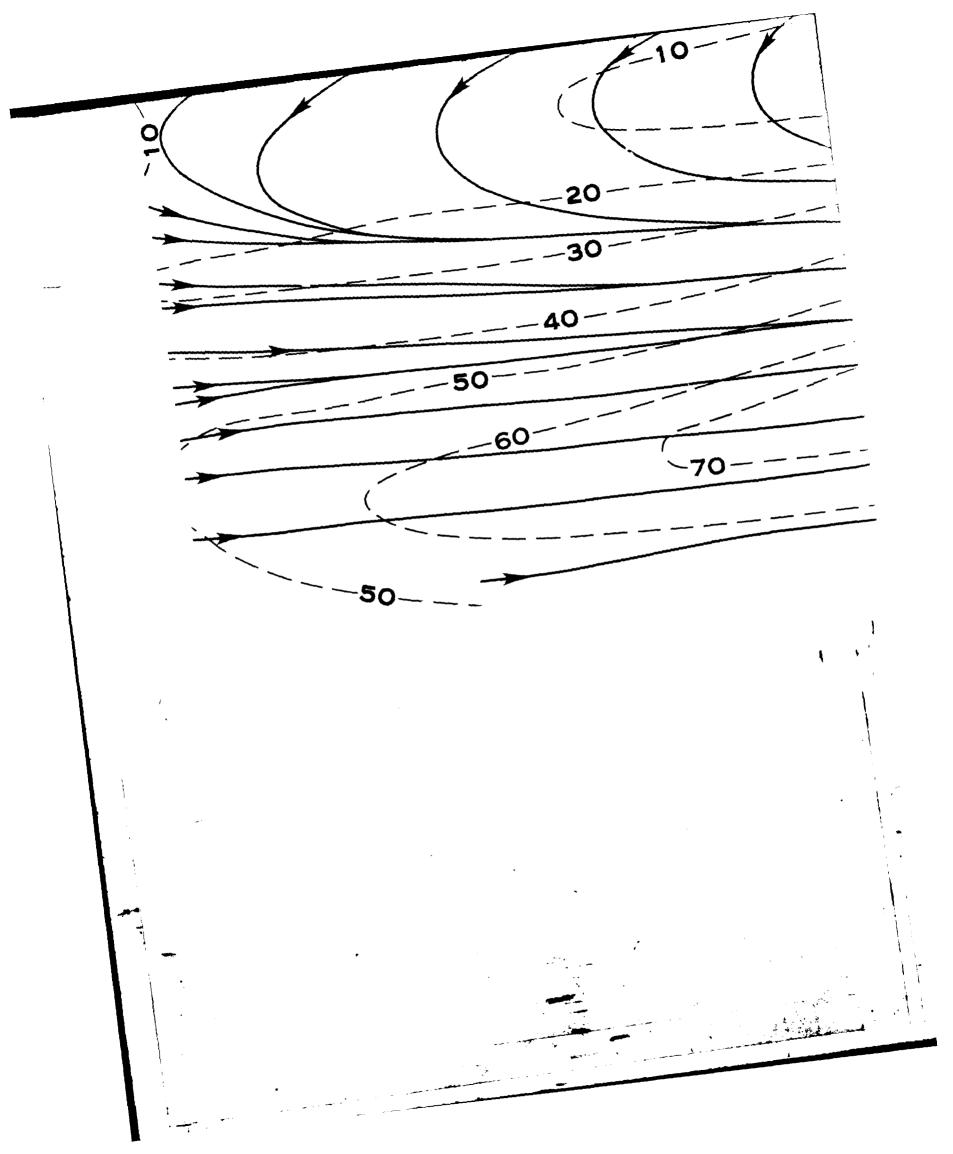
#### MEAN UPPER LEVEL WIN

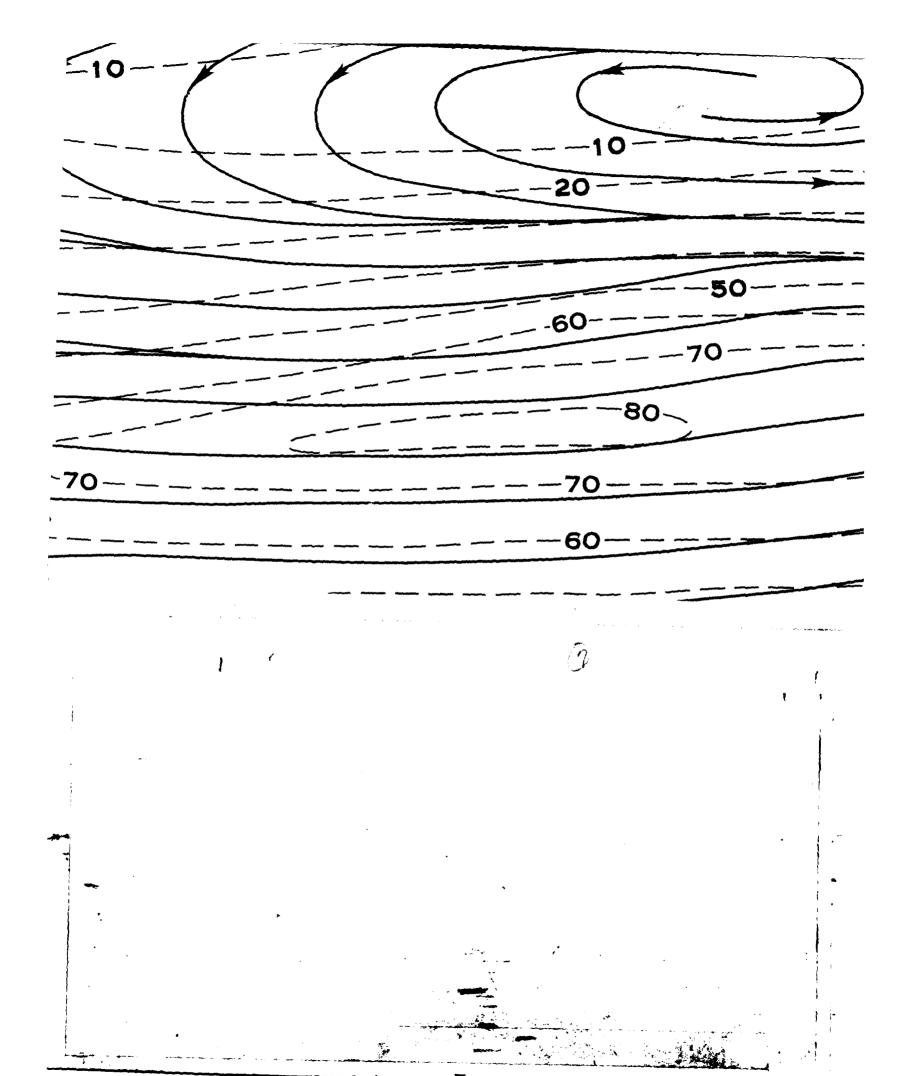
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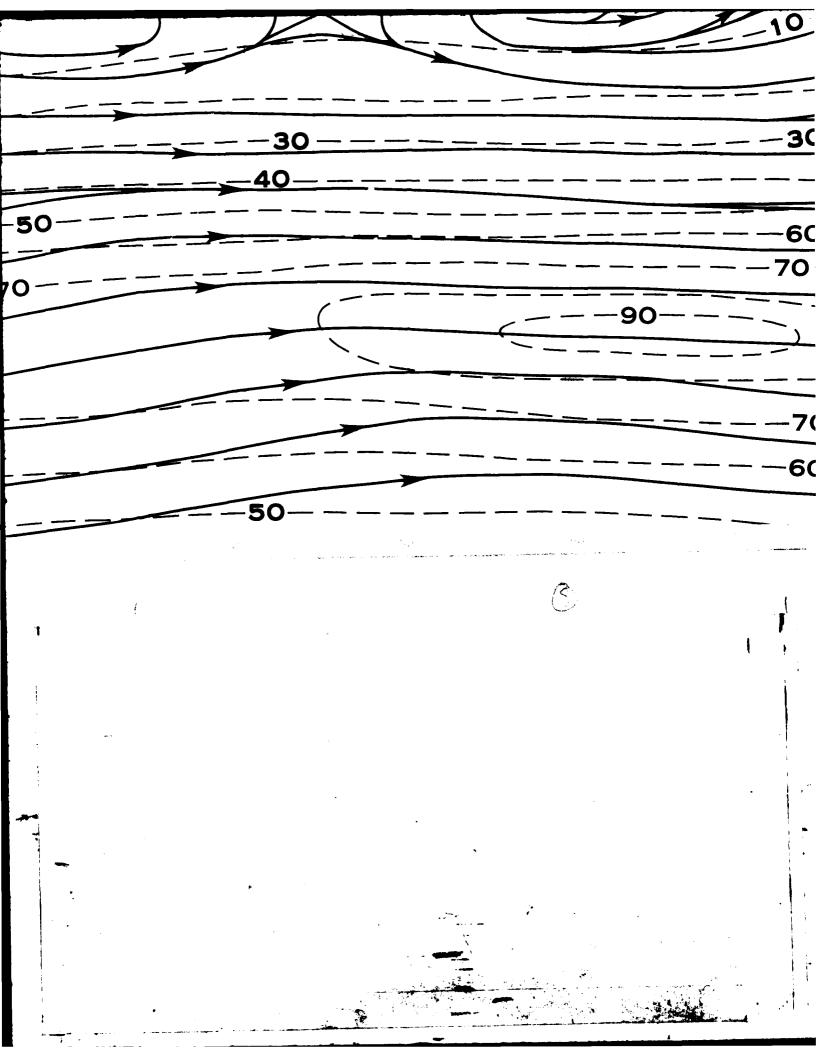


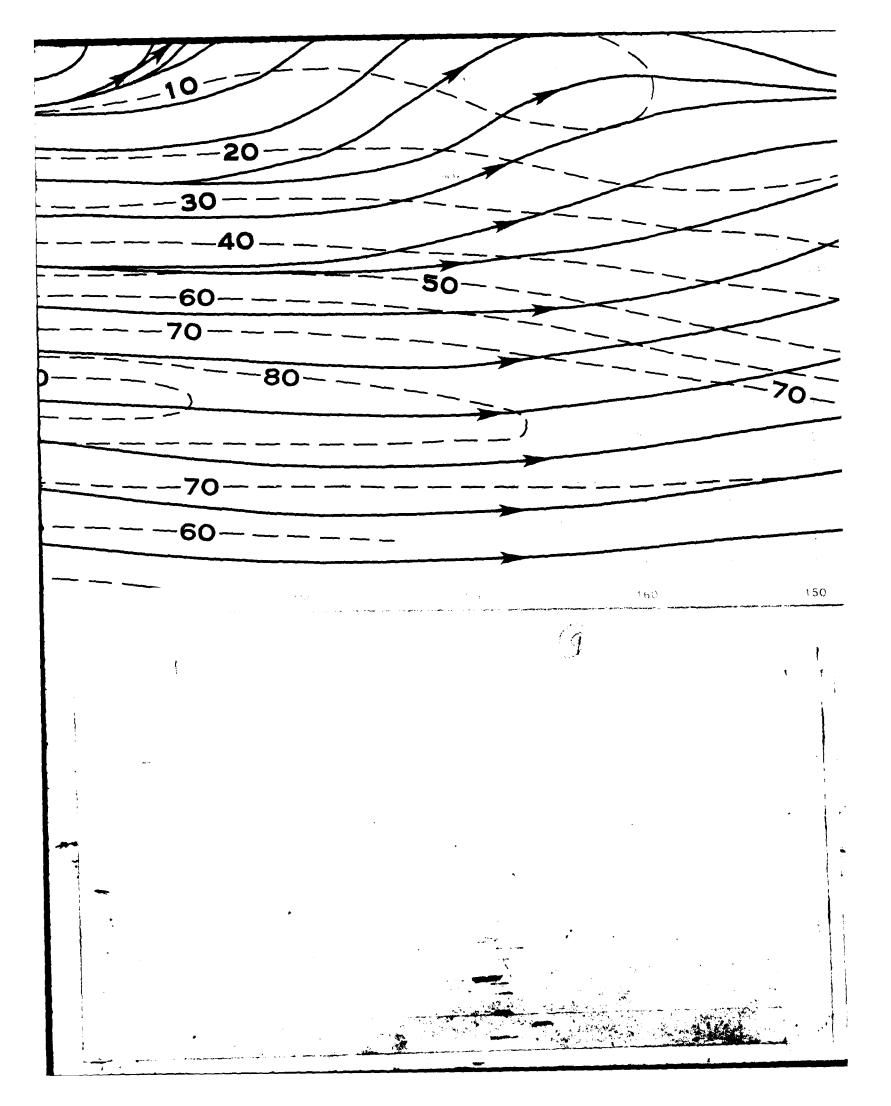
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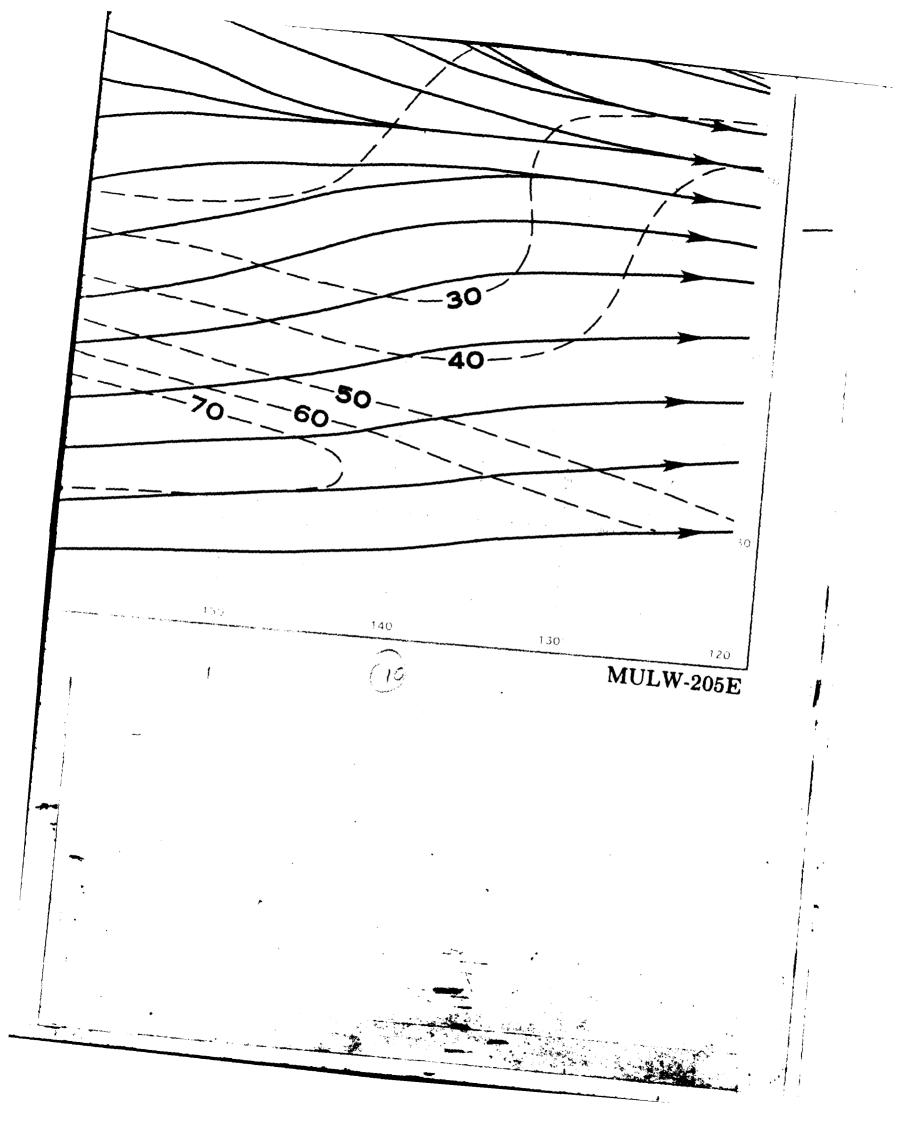


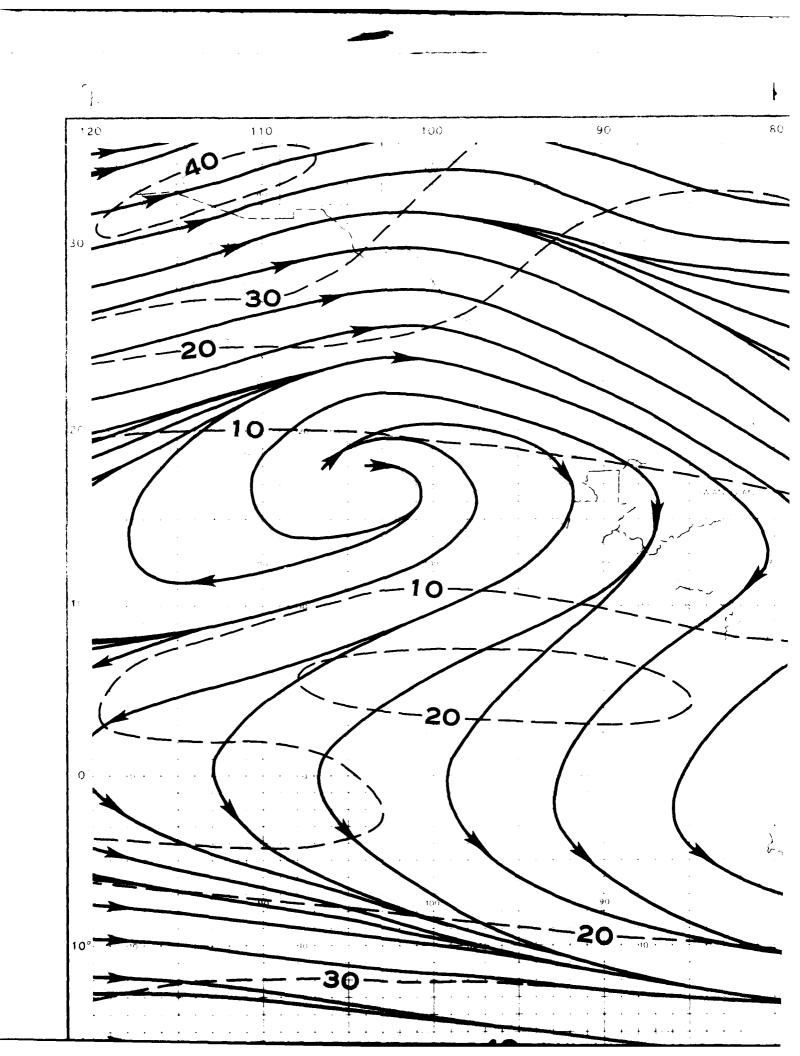




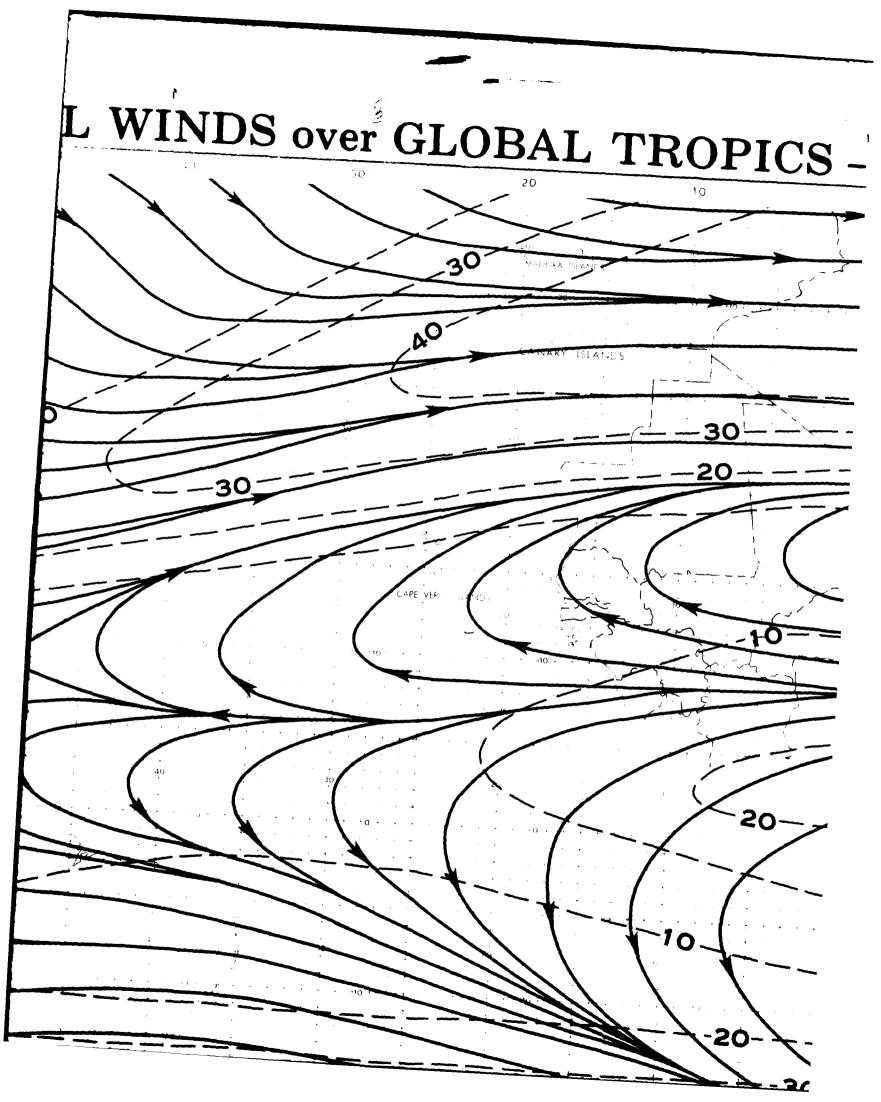




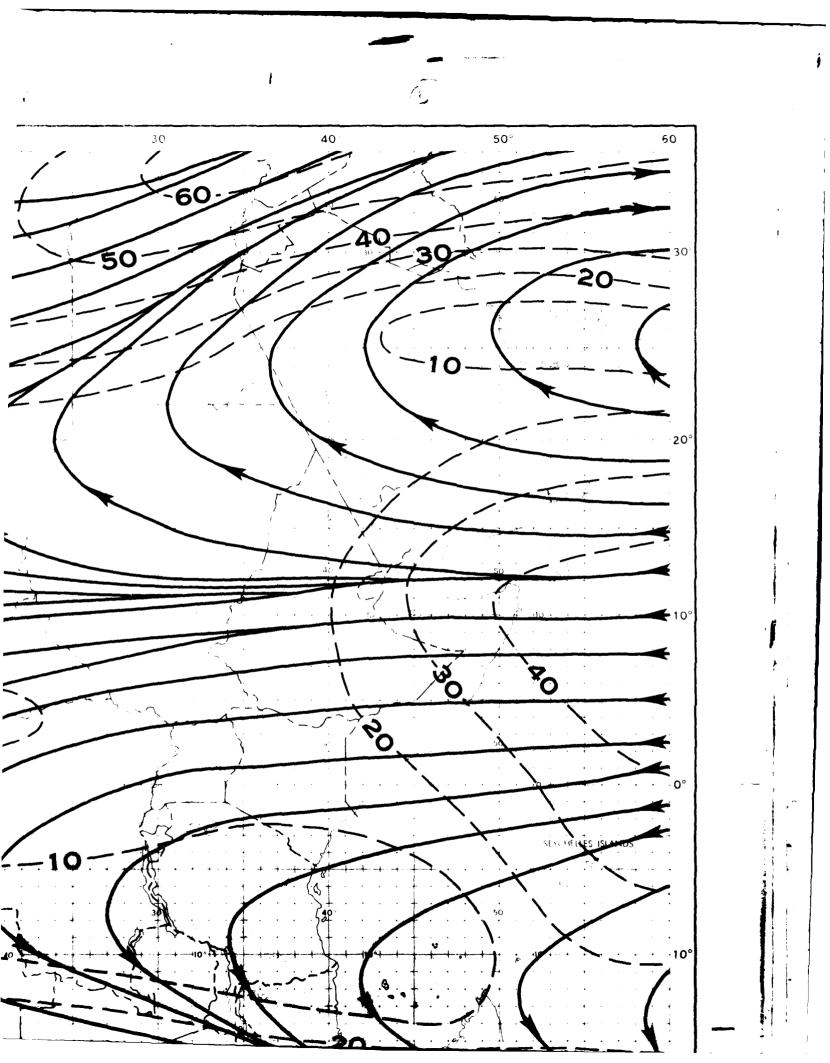


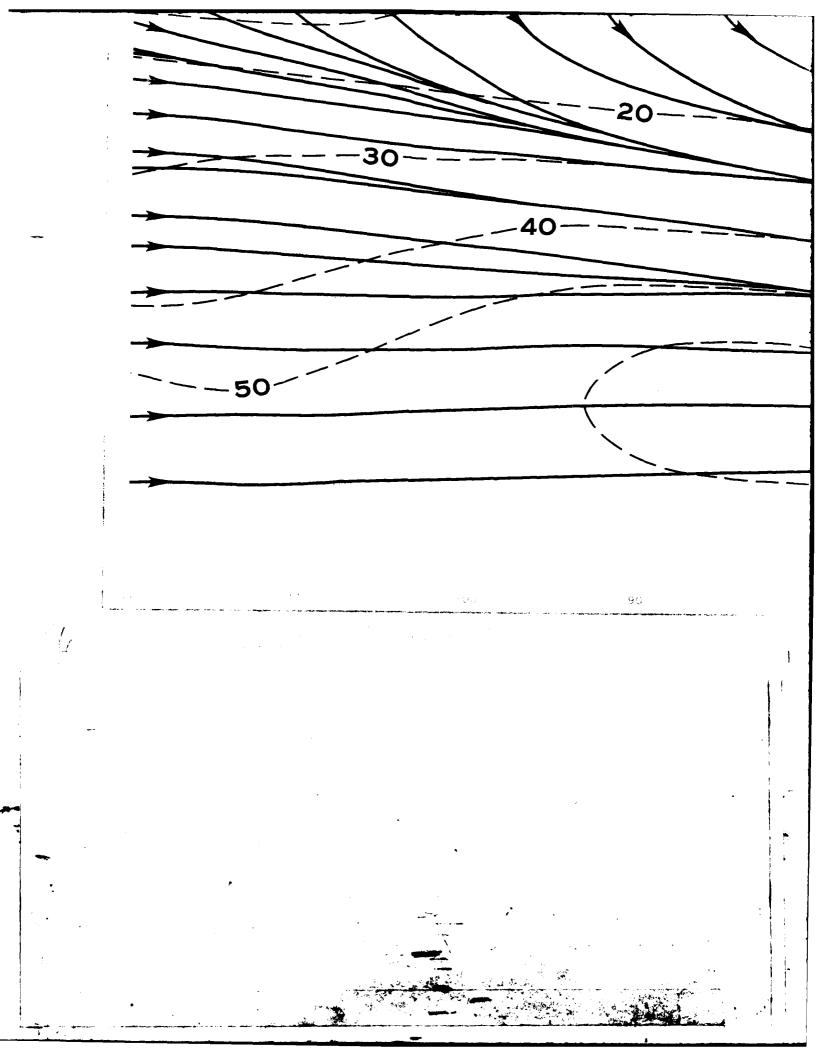


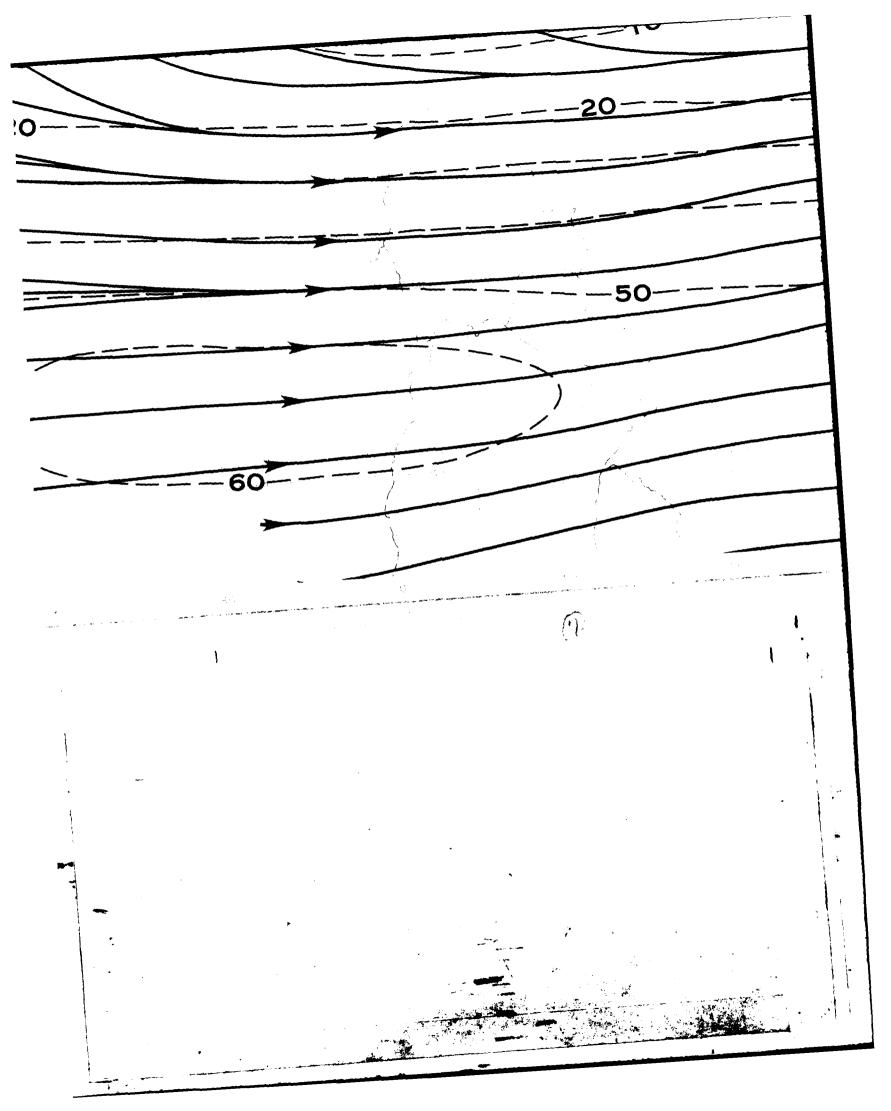
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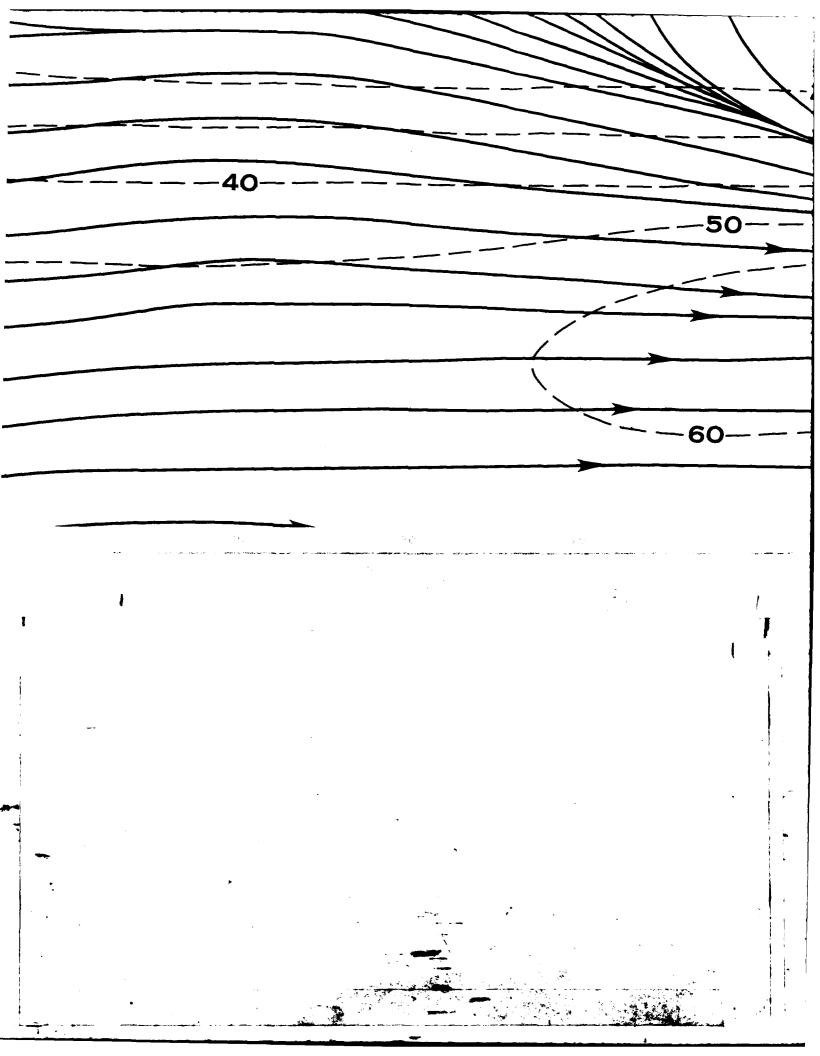


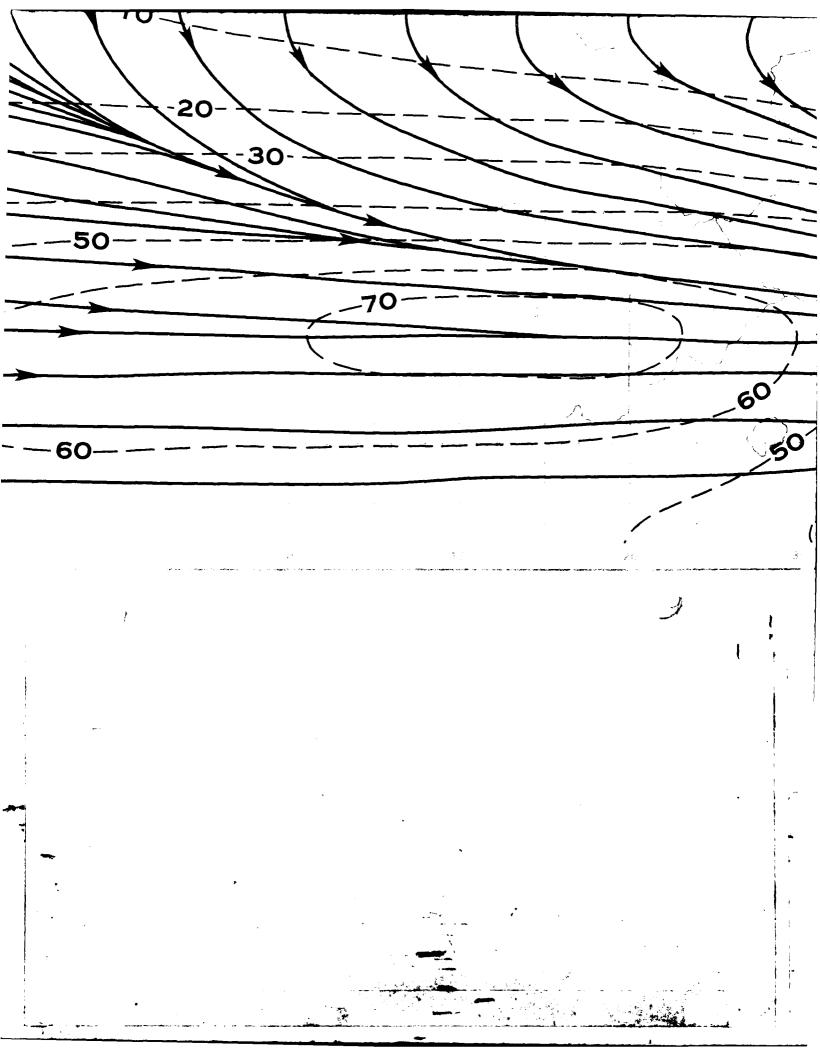
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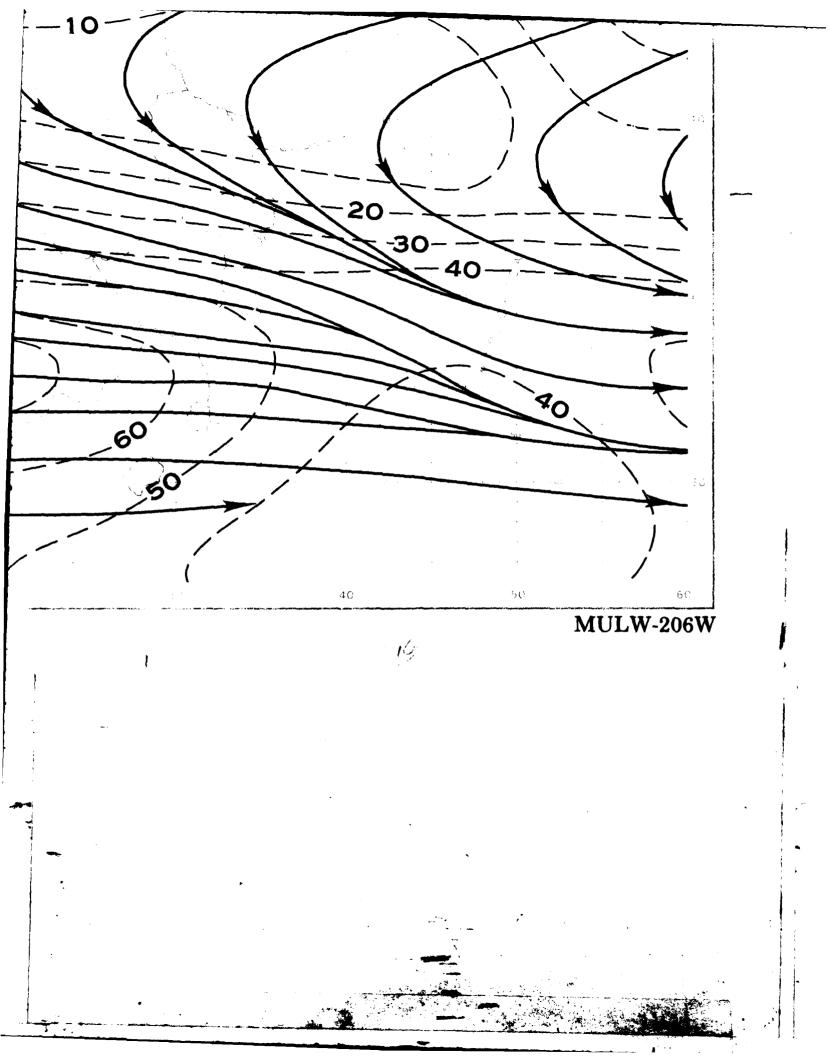


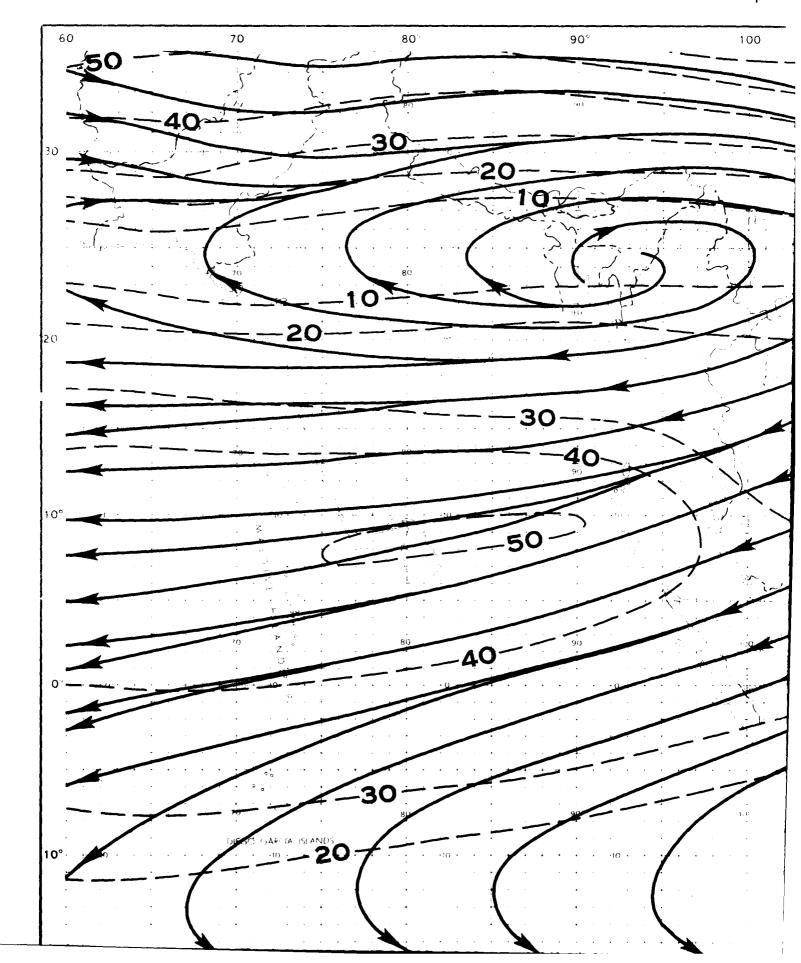








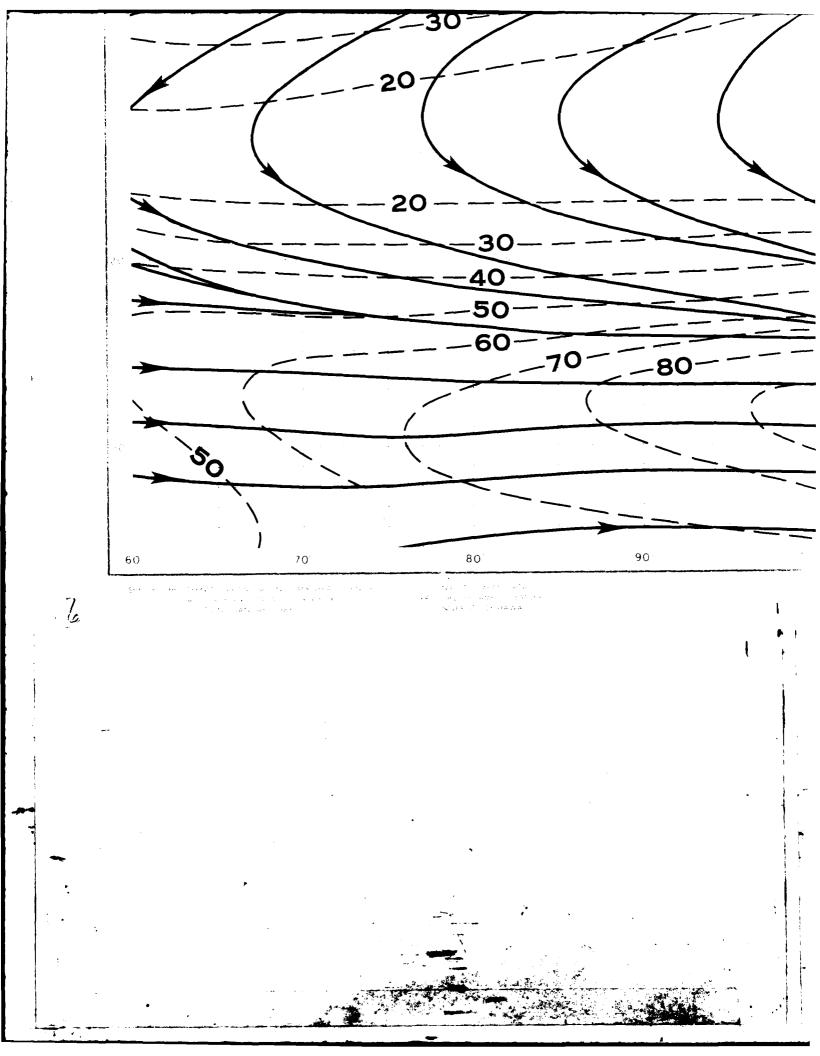


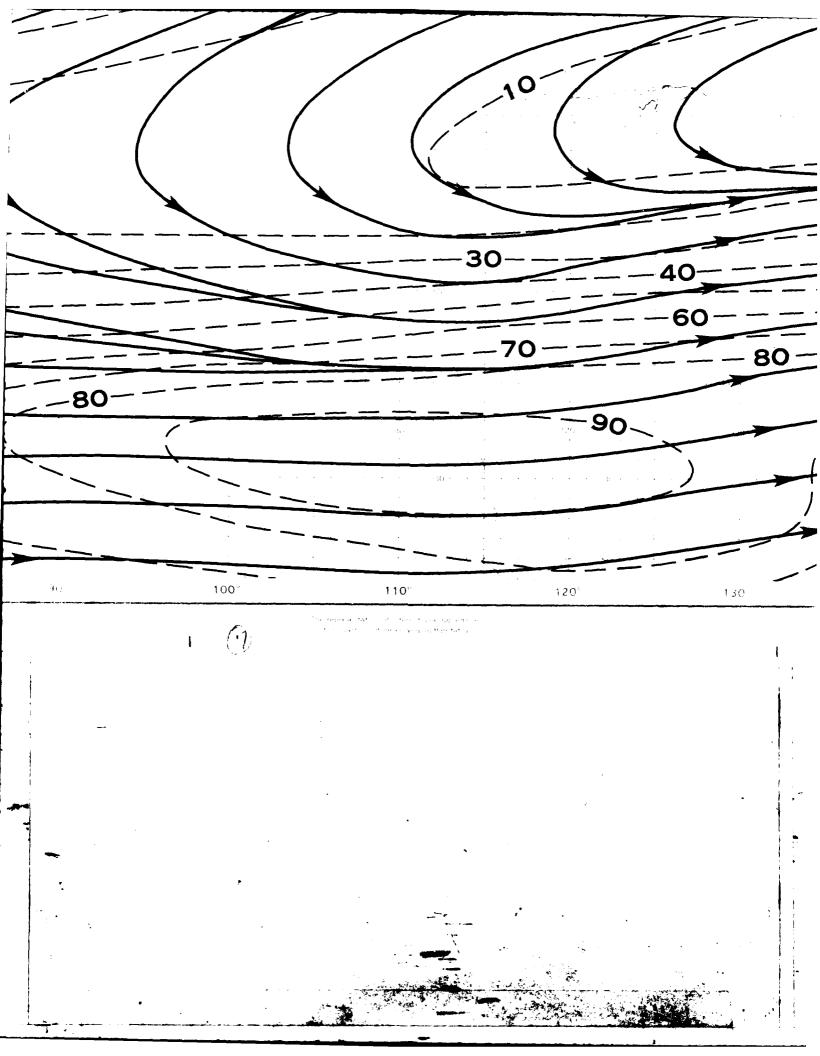


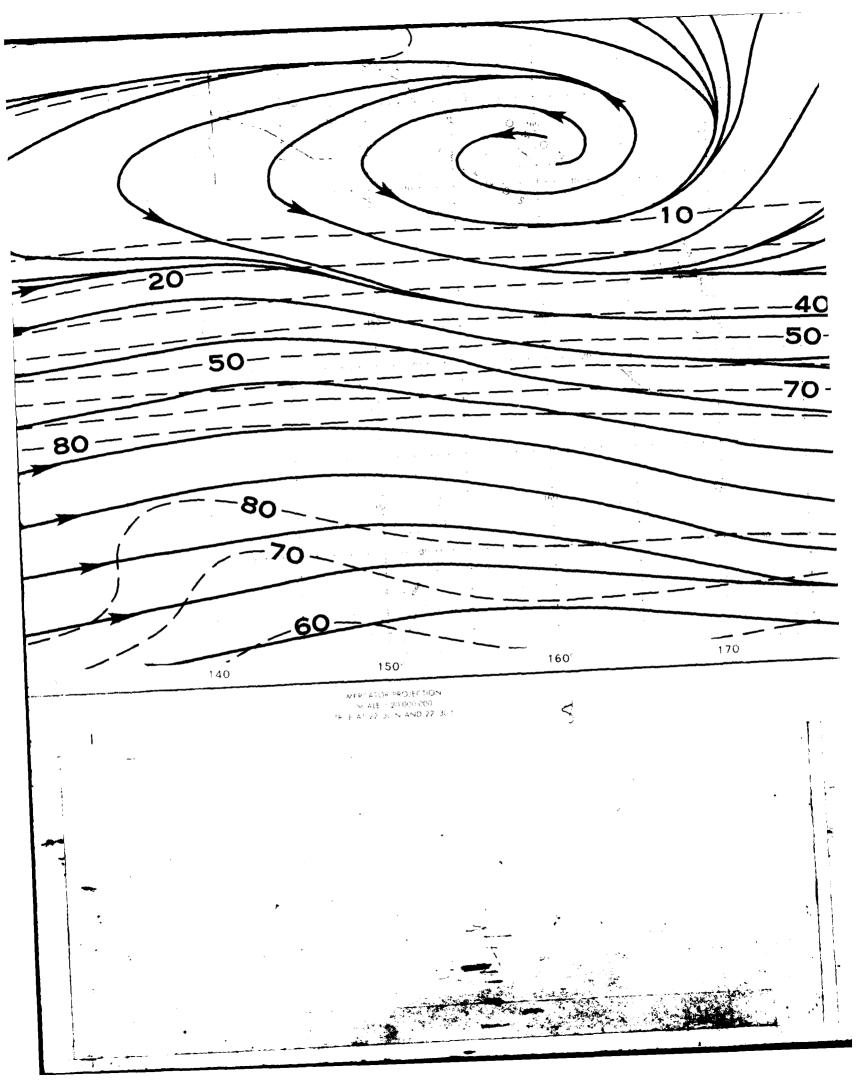
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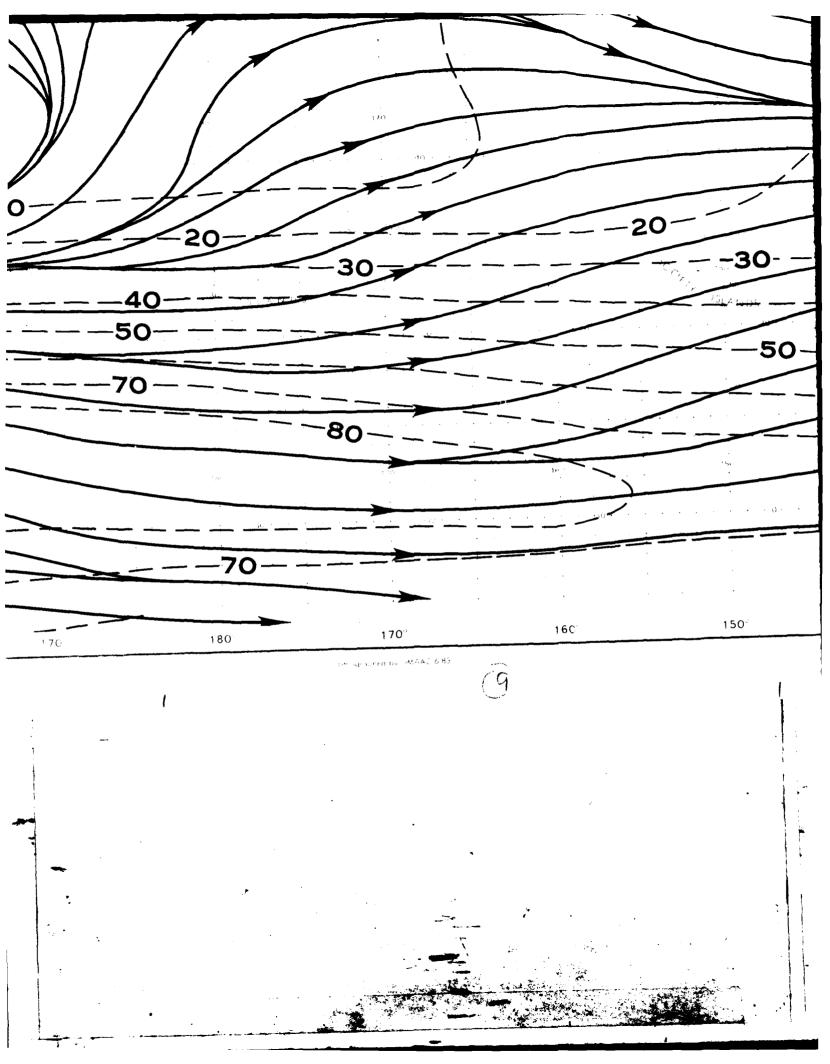
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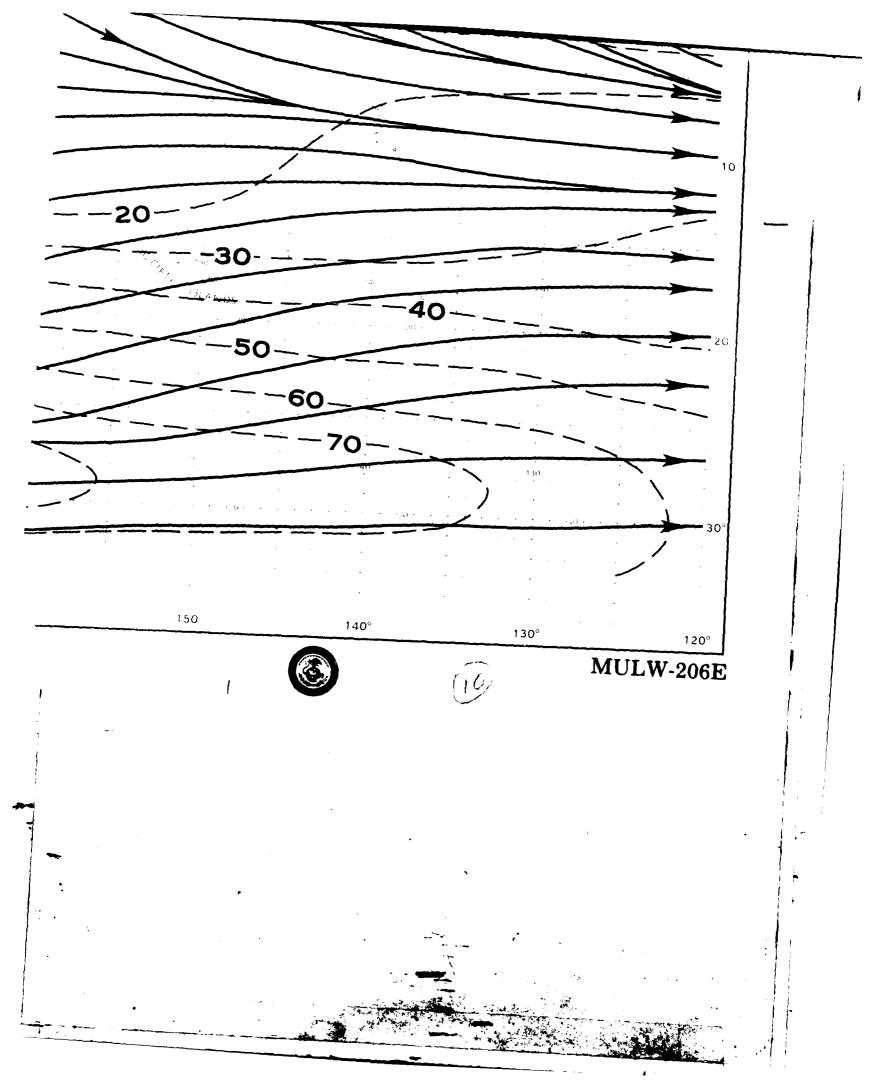
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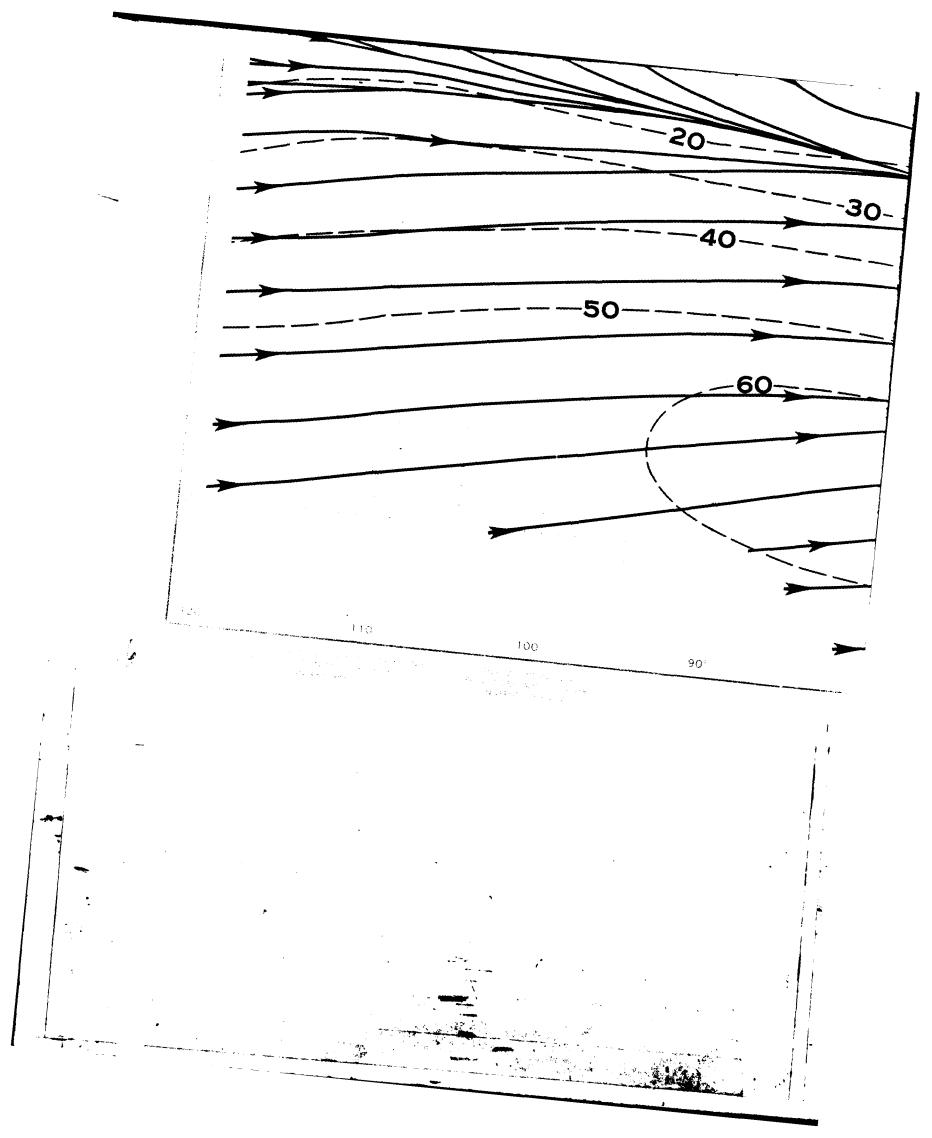


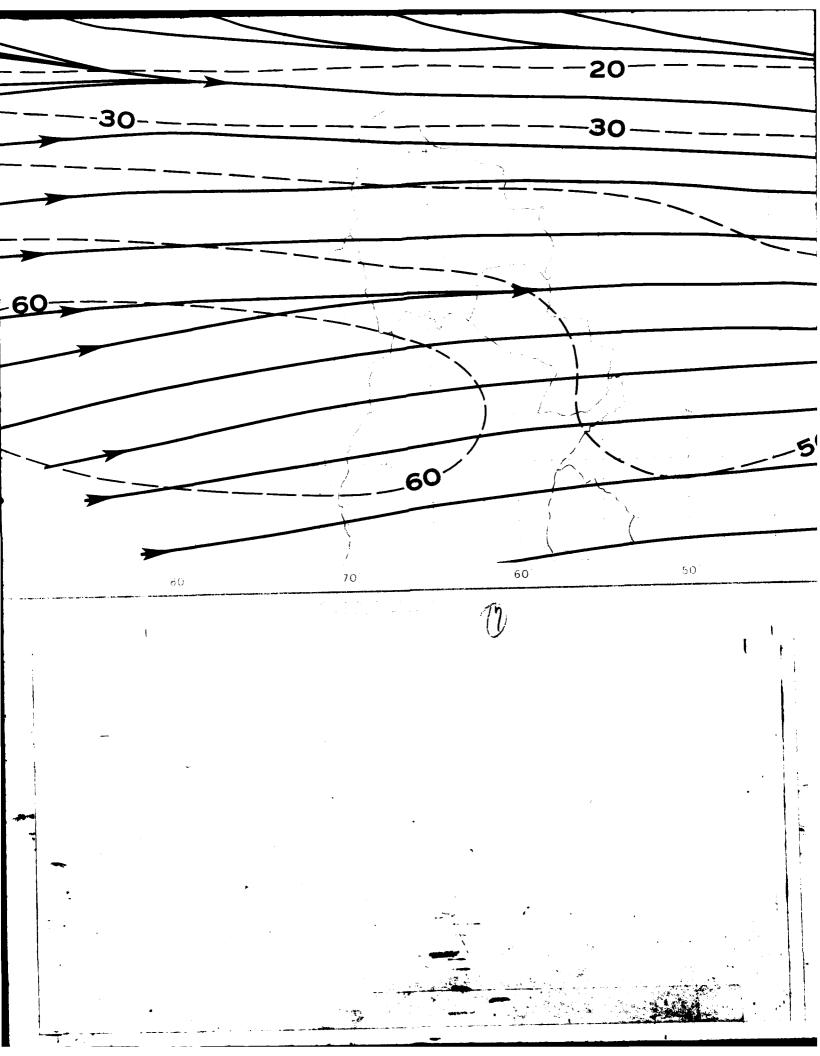
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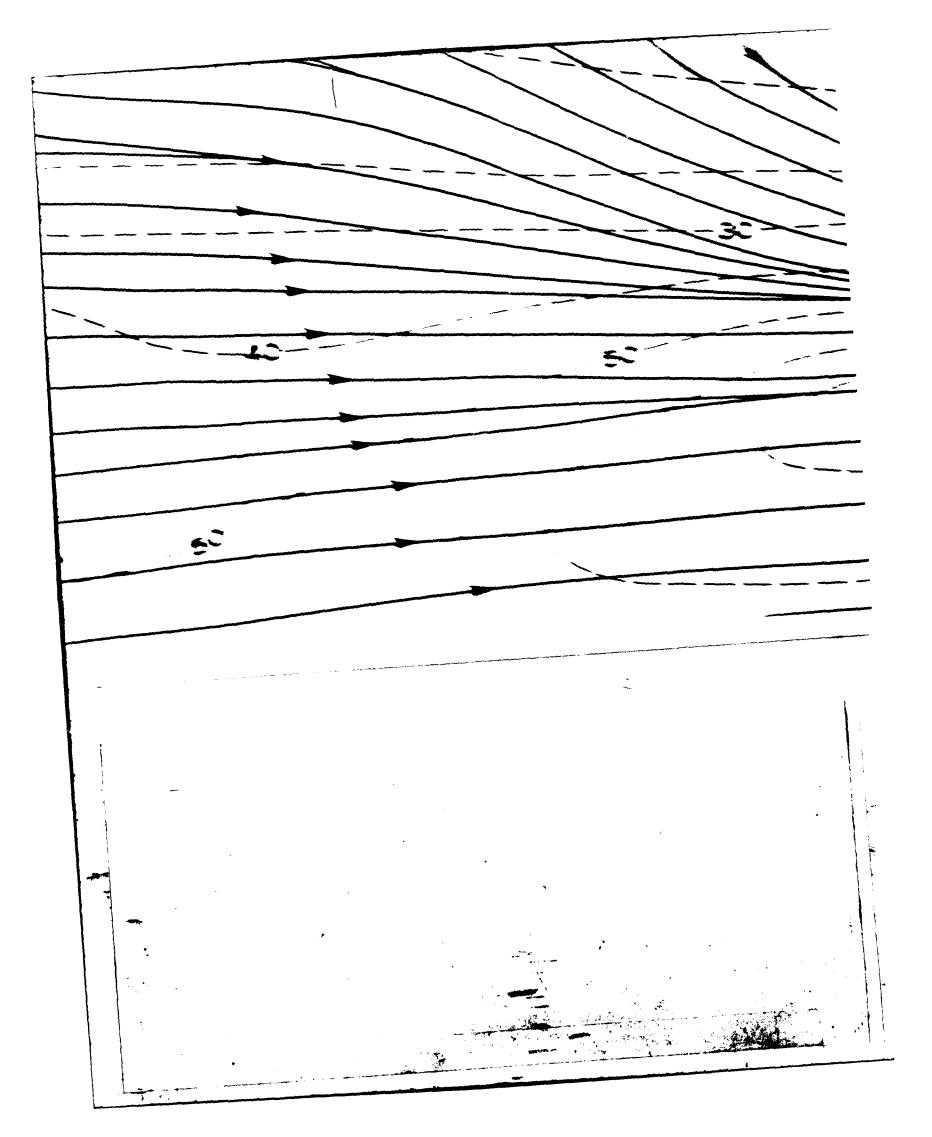
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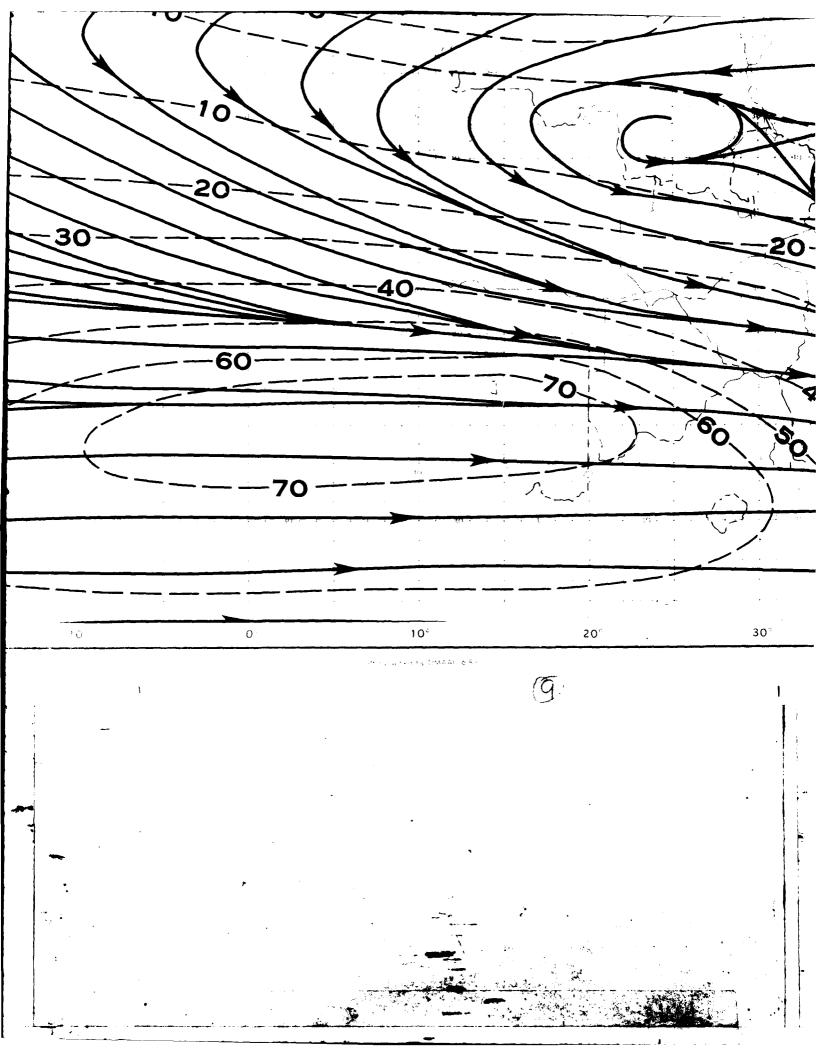
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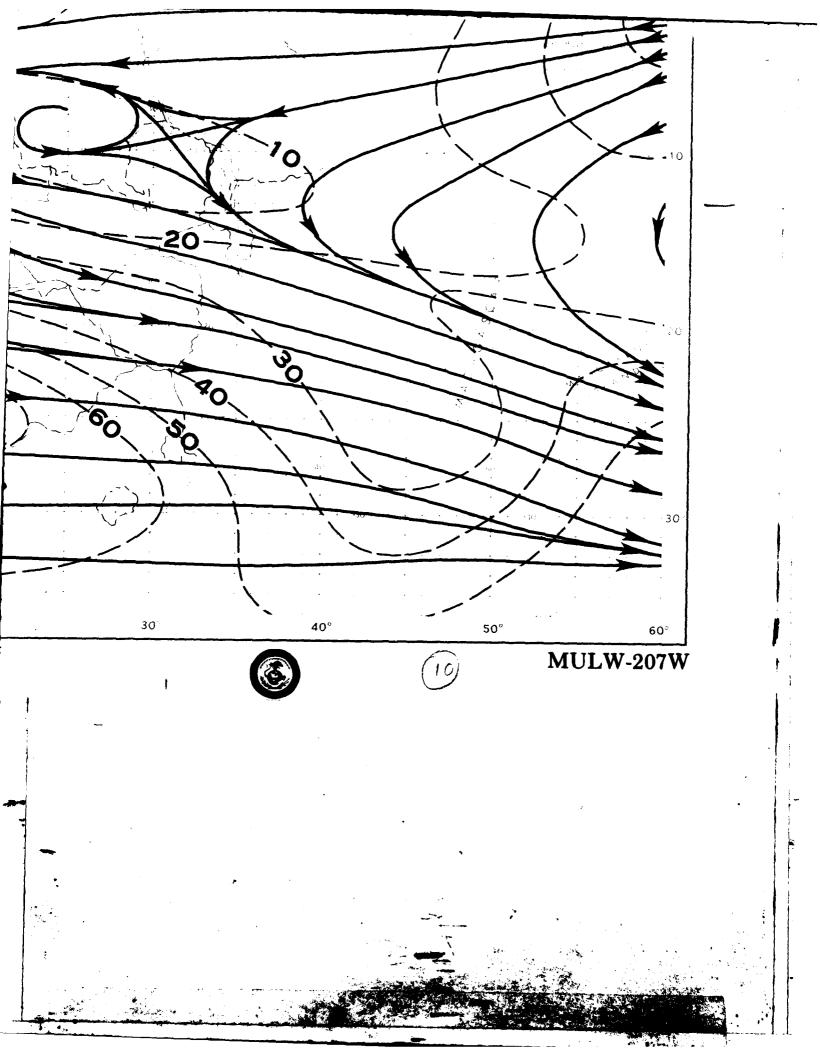
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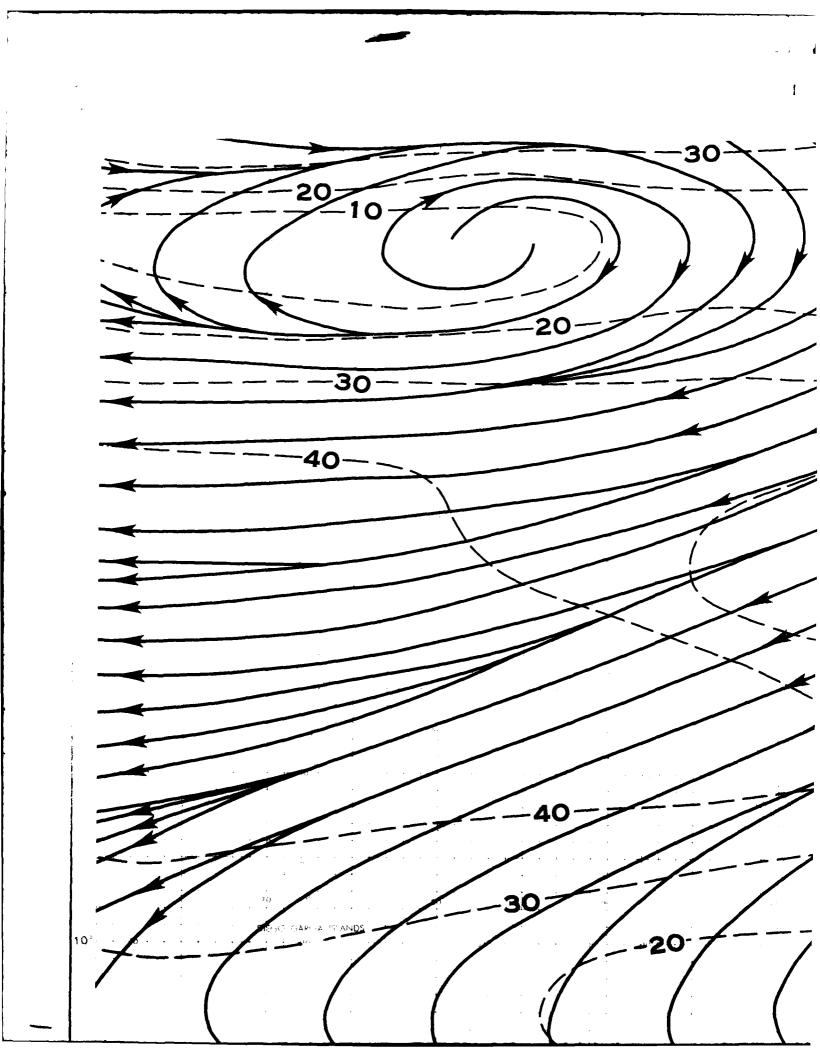






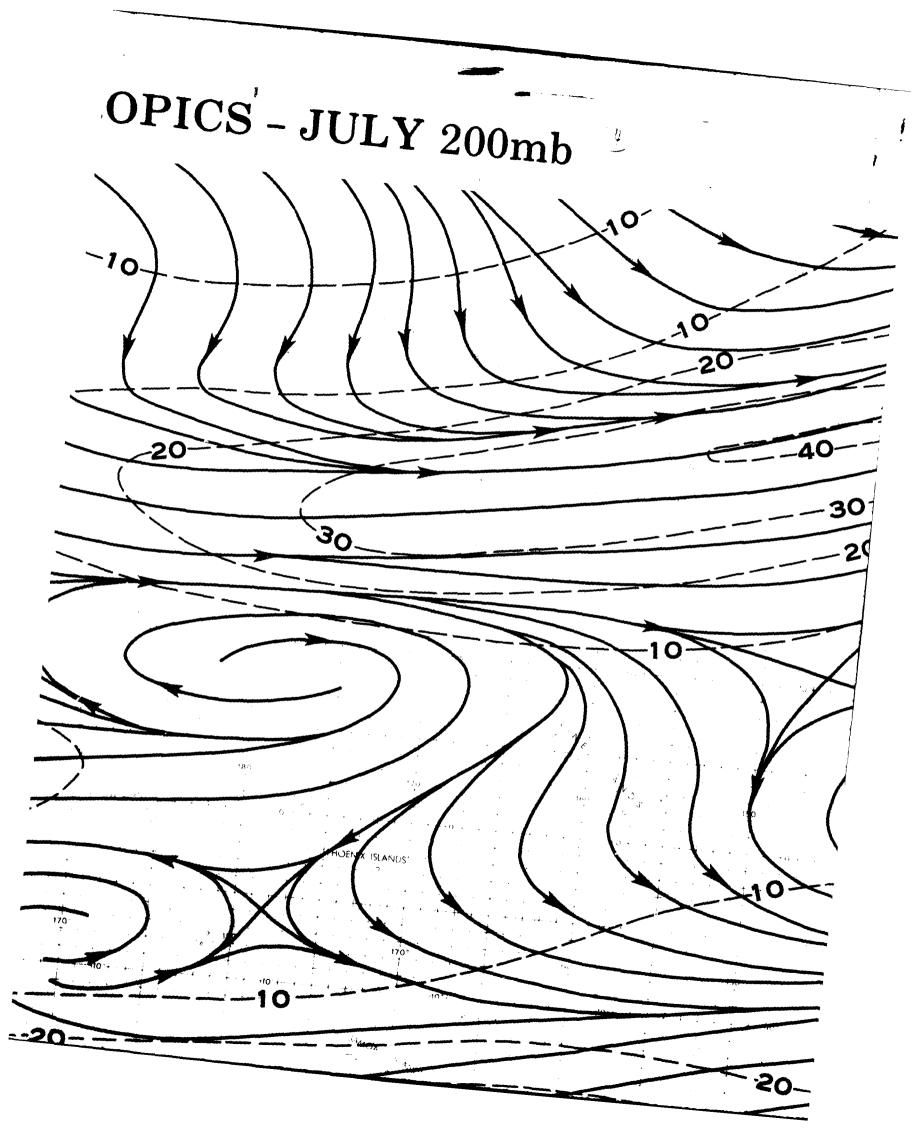


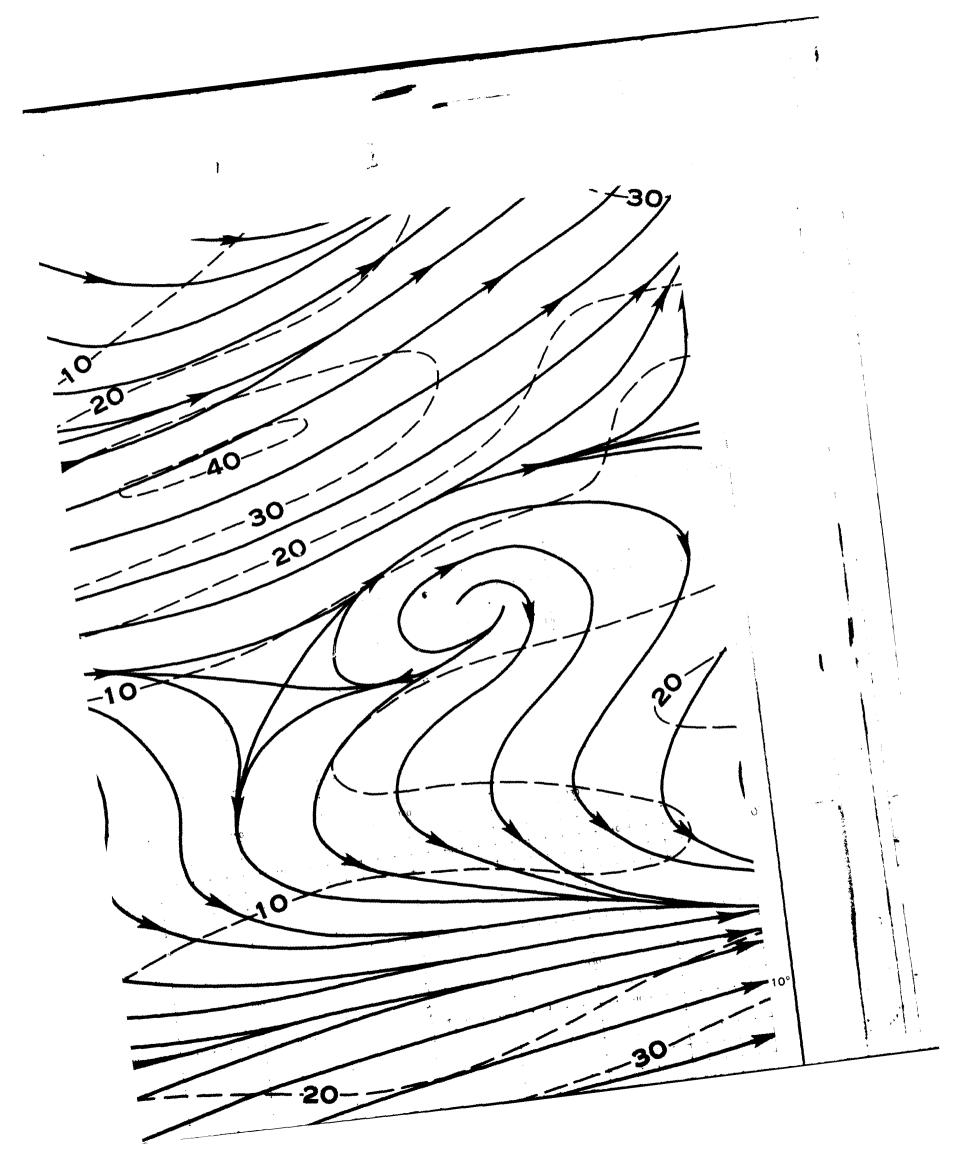


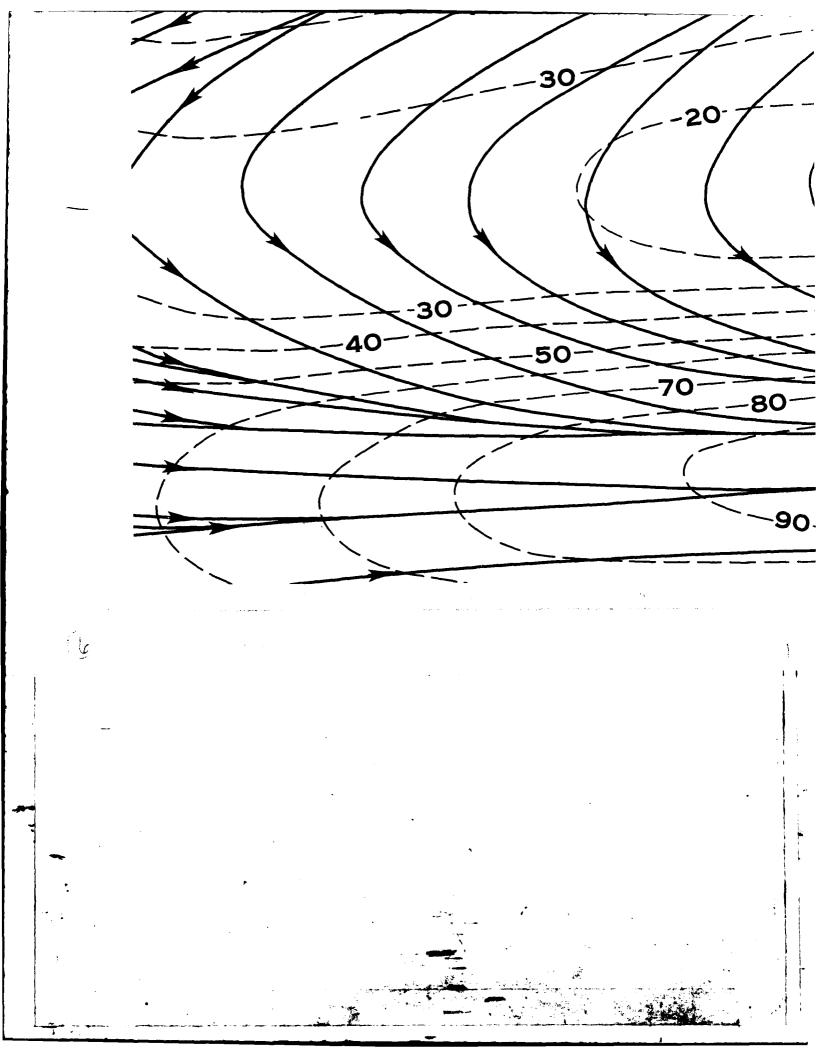


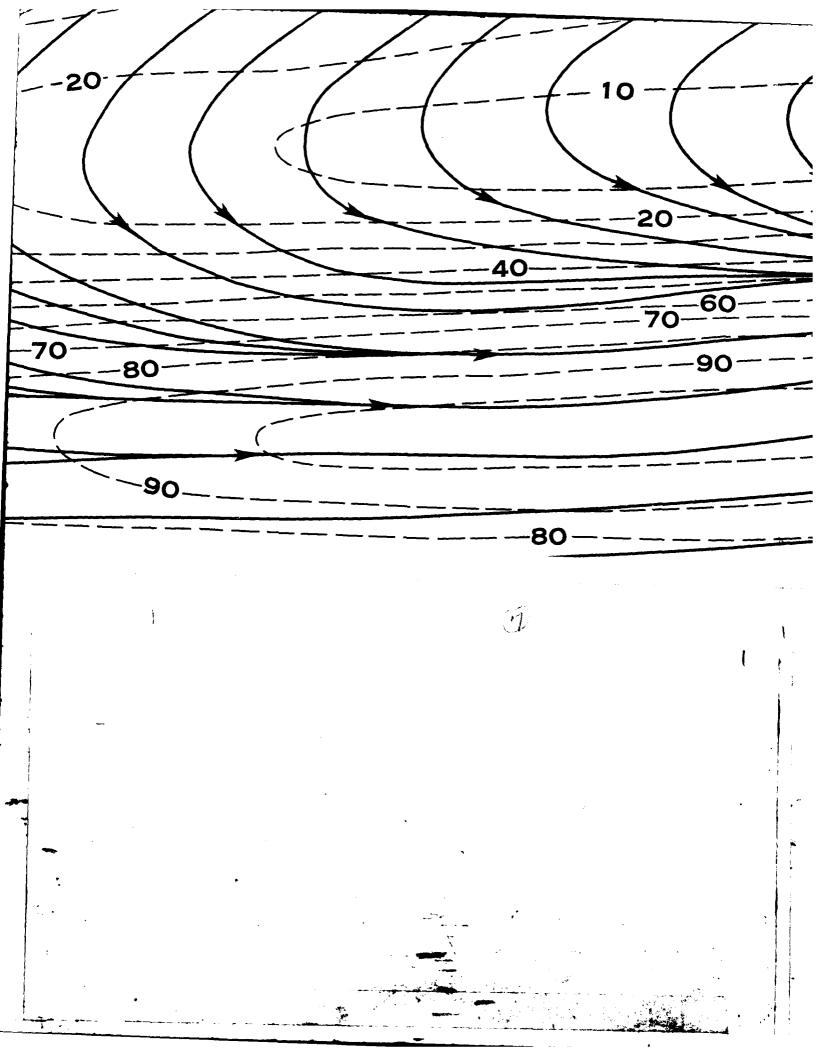
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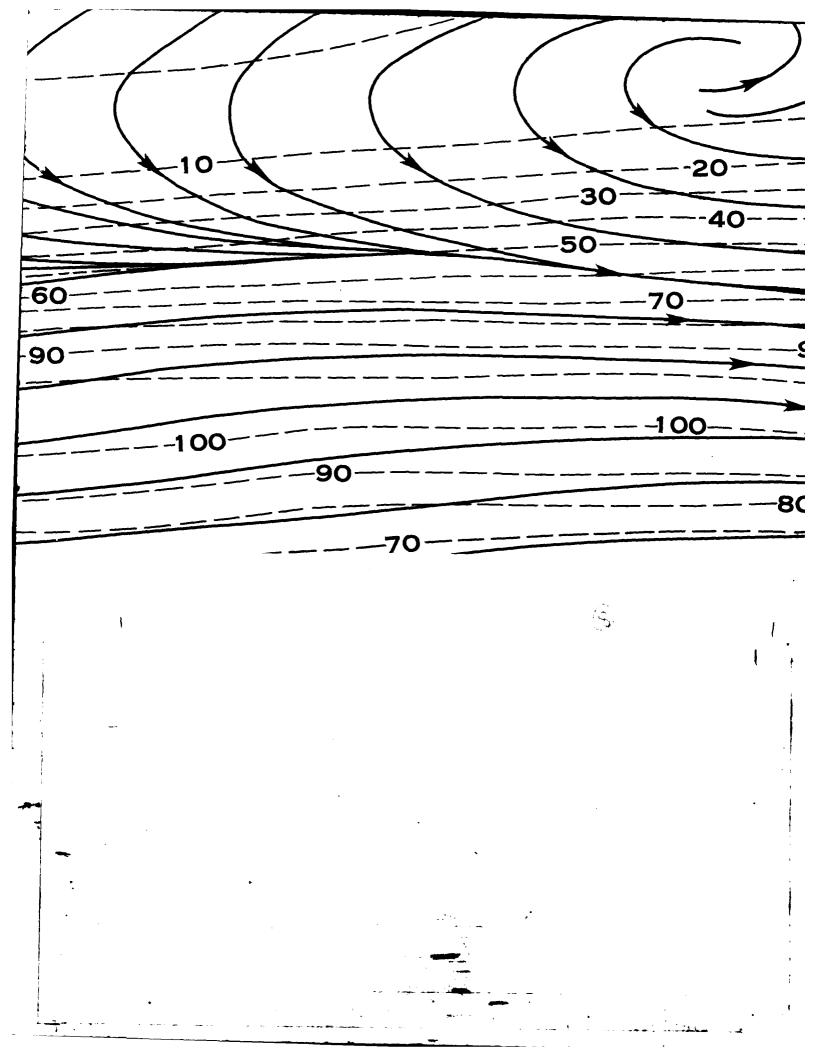
# L WINDS over GLOBAL TROPICS -







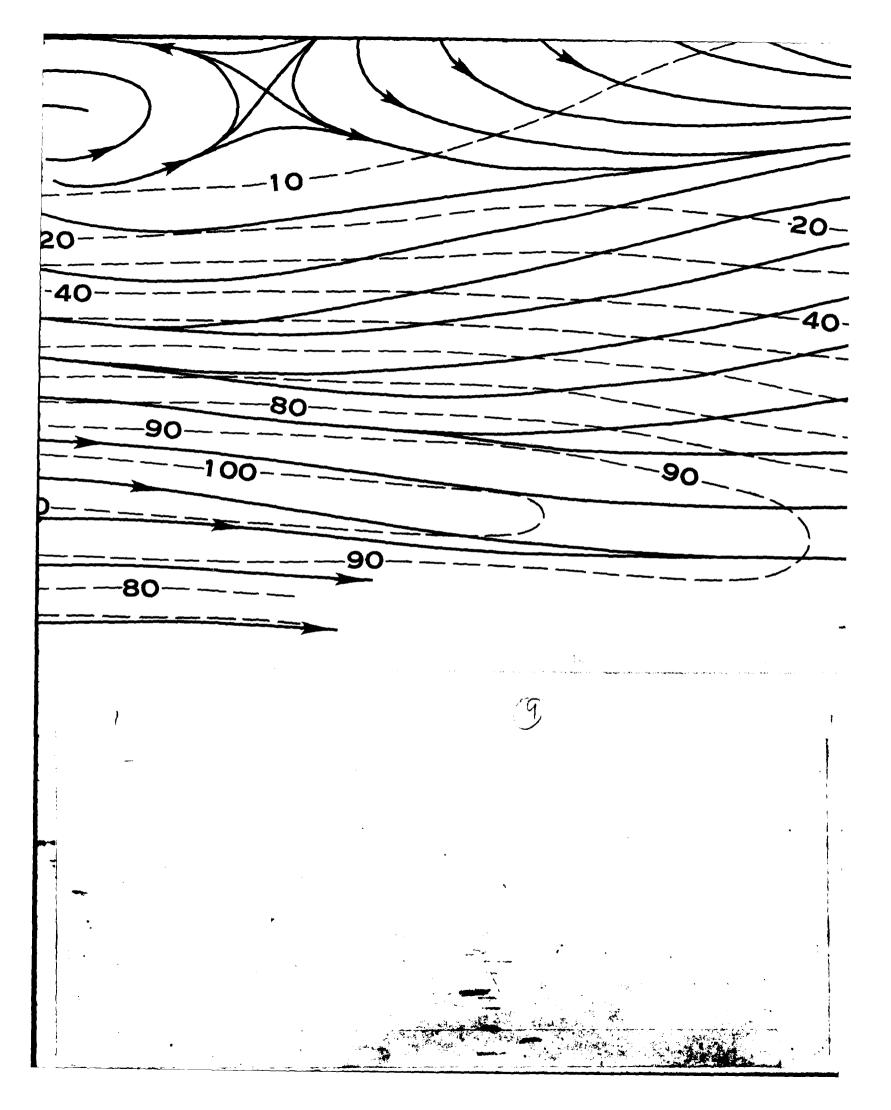


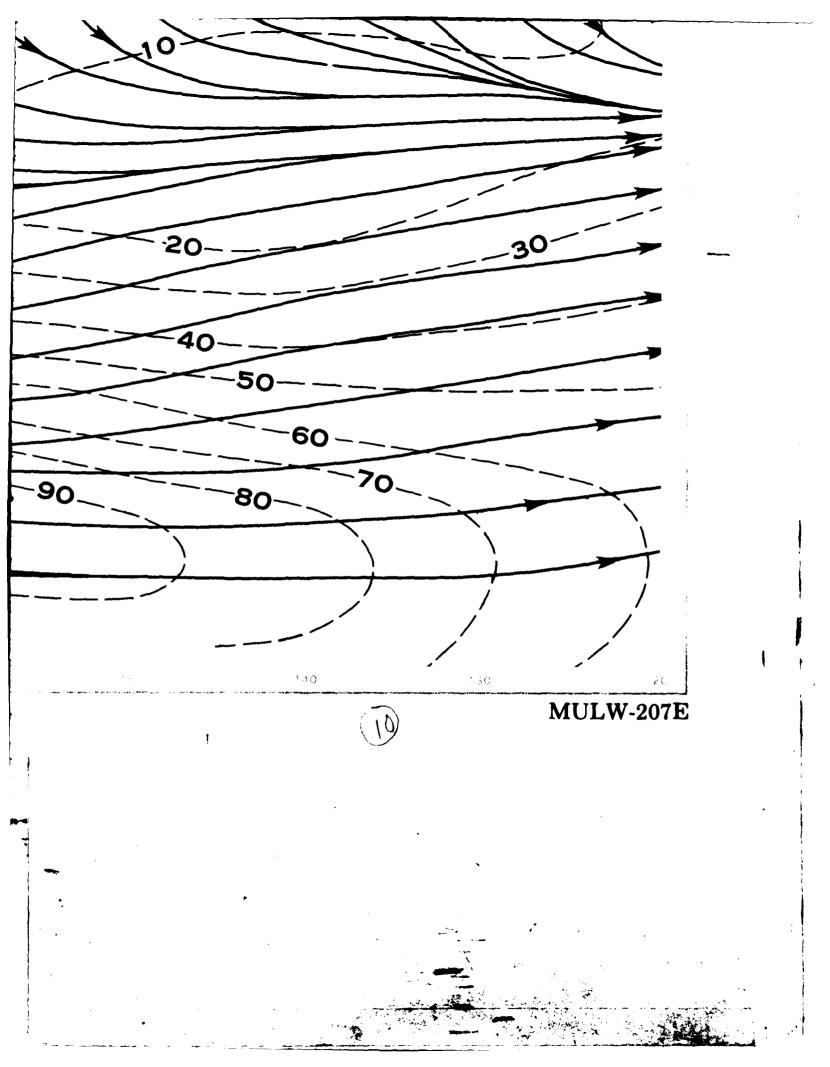


MEAN UPPER TROPOSPHERIC FLOW OVER THE GLOBAL TROPICS VOLUME 2(1) AIR MEATHER SERVICE SCOTT AFB IL J C SADLER ET AL. JAM 84 AWS/TR-83/002-VOL-2 51-AD-E850 890 516 AD-A141 484 NL UNCLASSIFIED



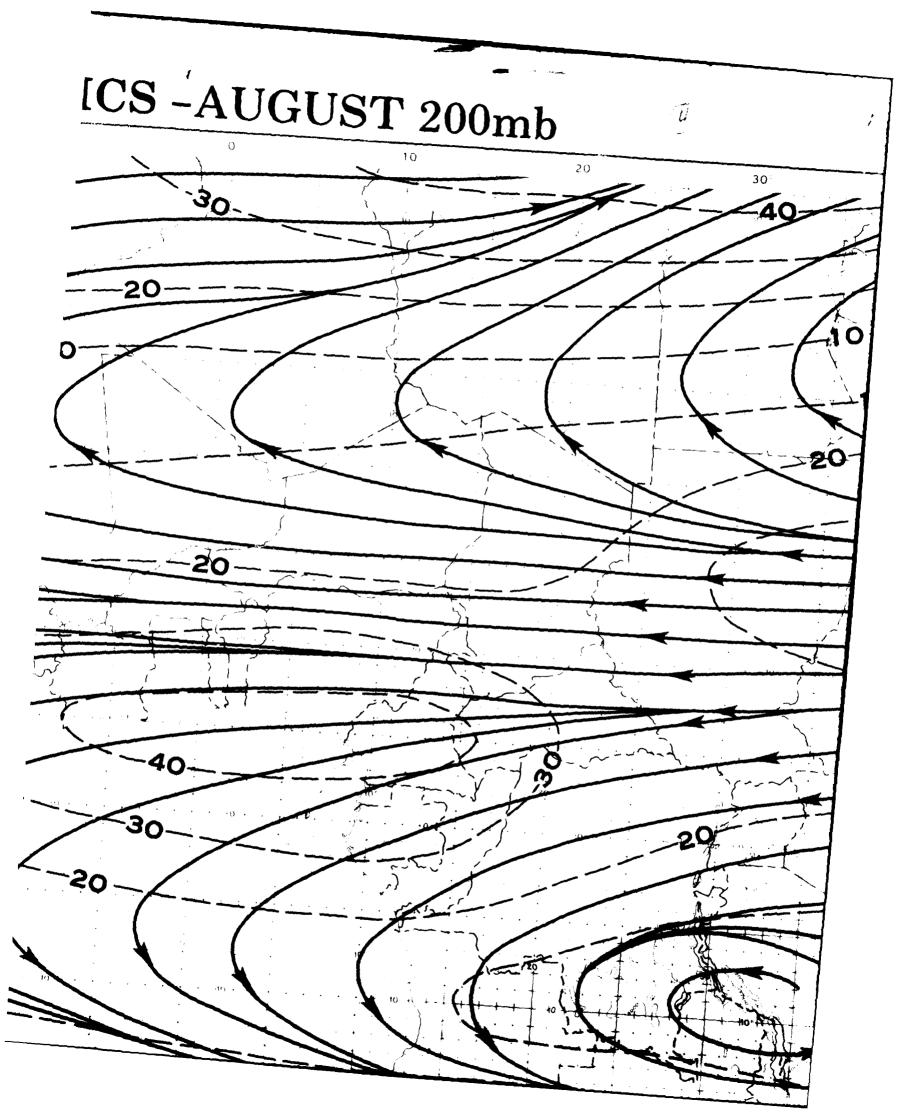
MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS - 1963 - A



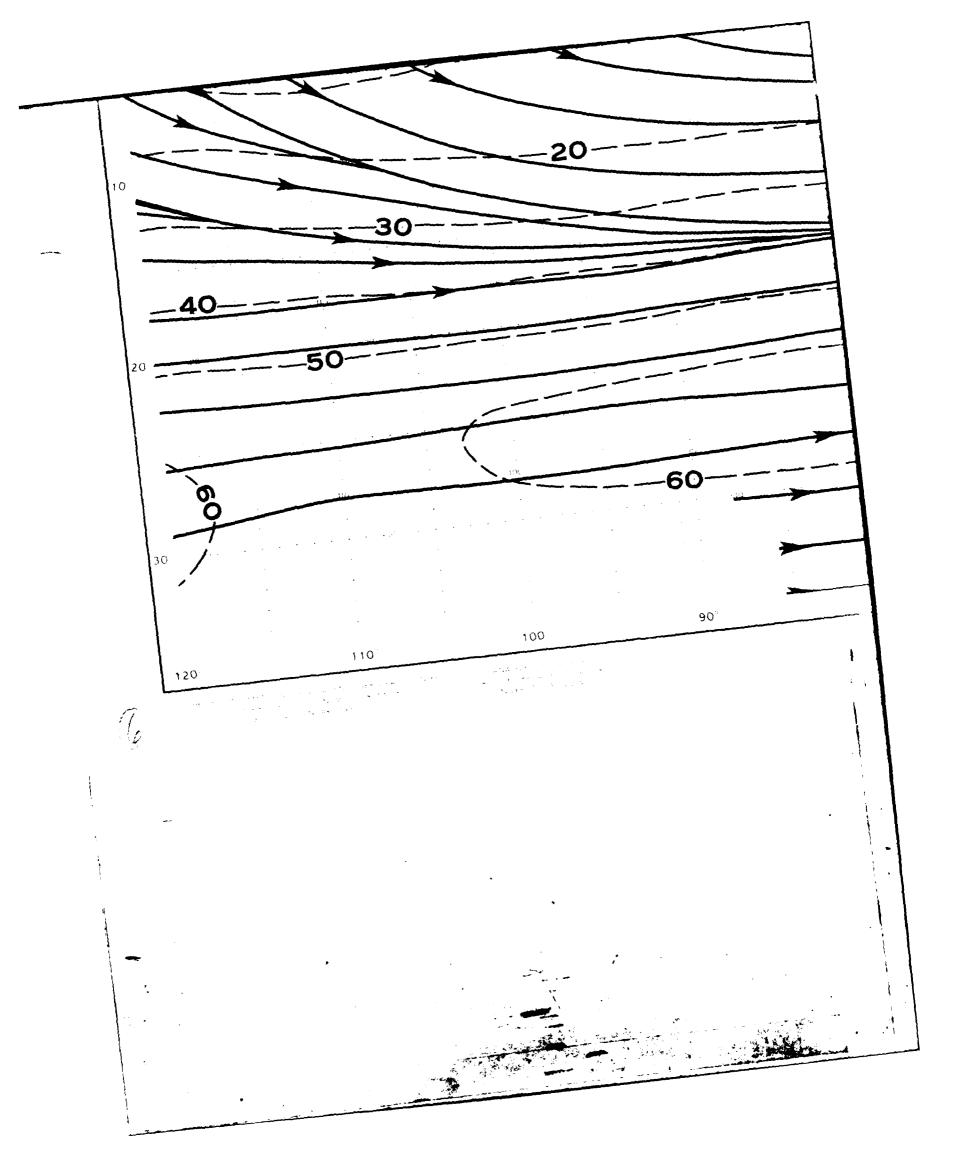


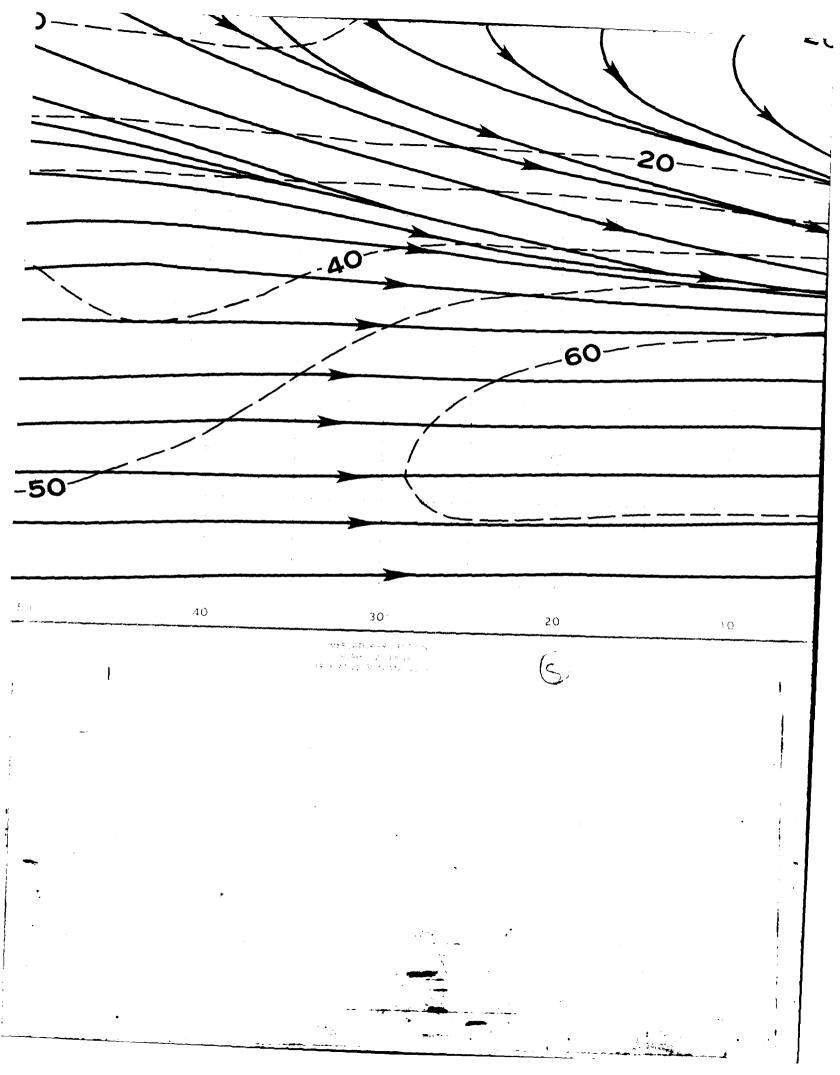
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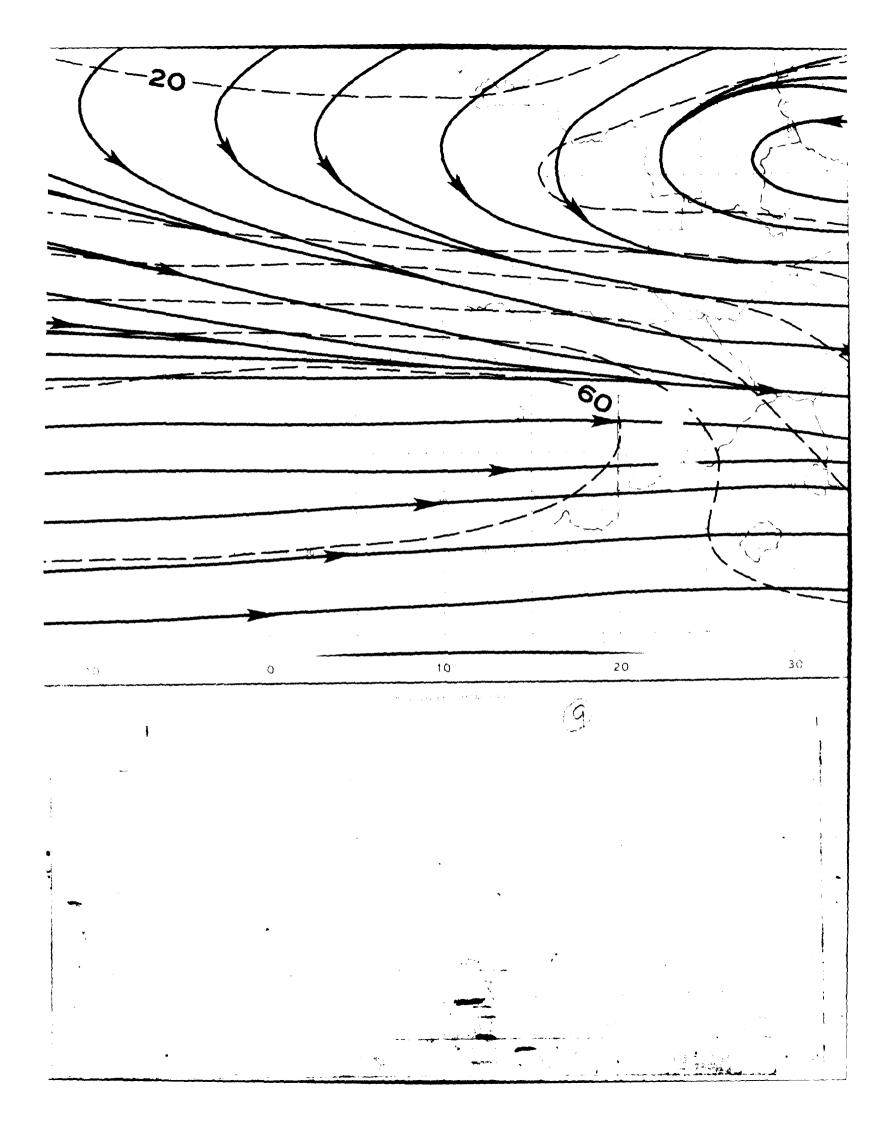
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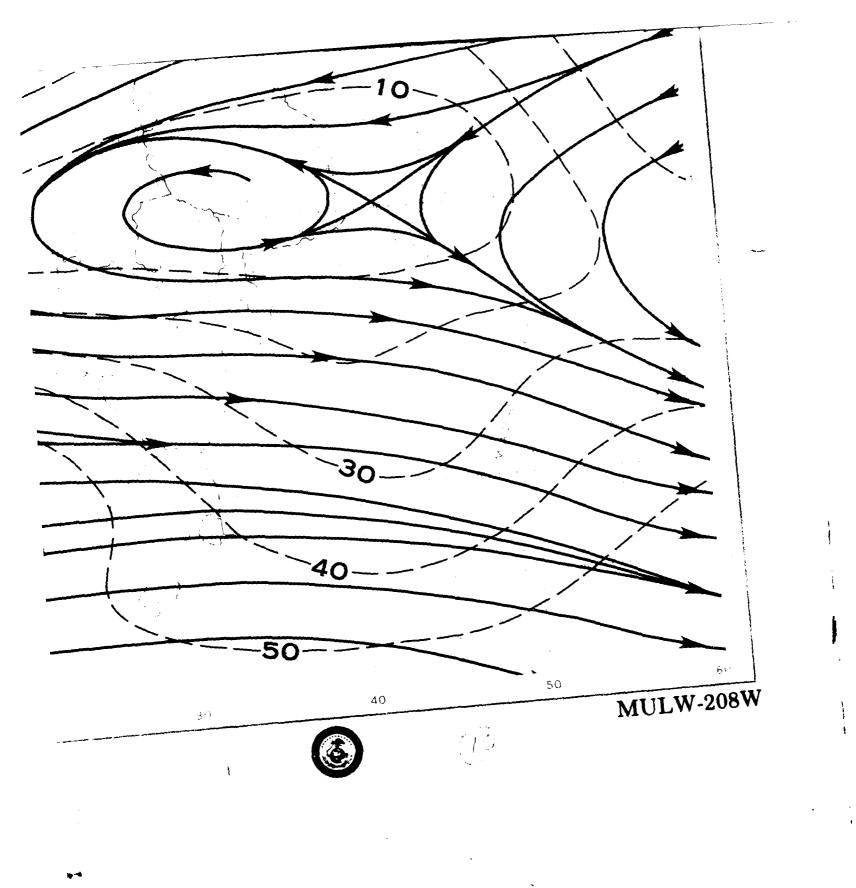


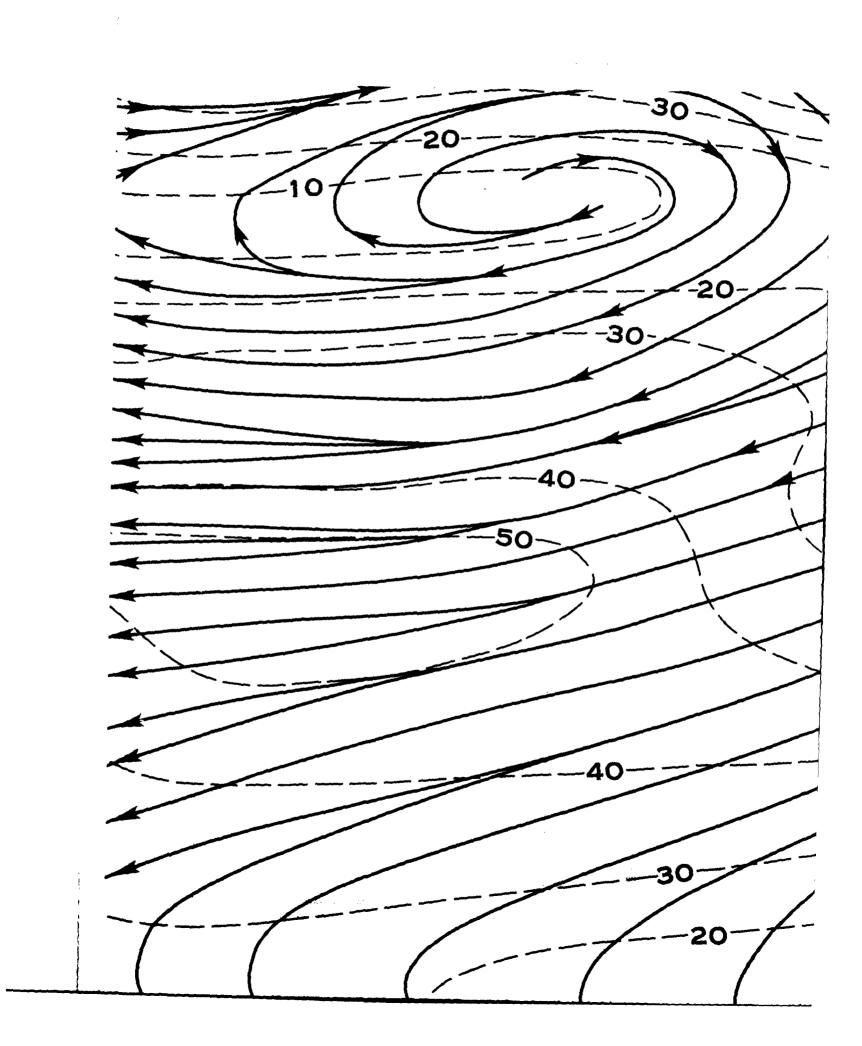
30-ES ISLANDS







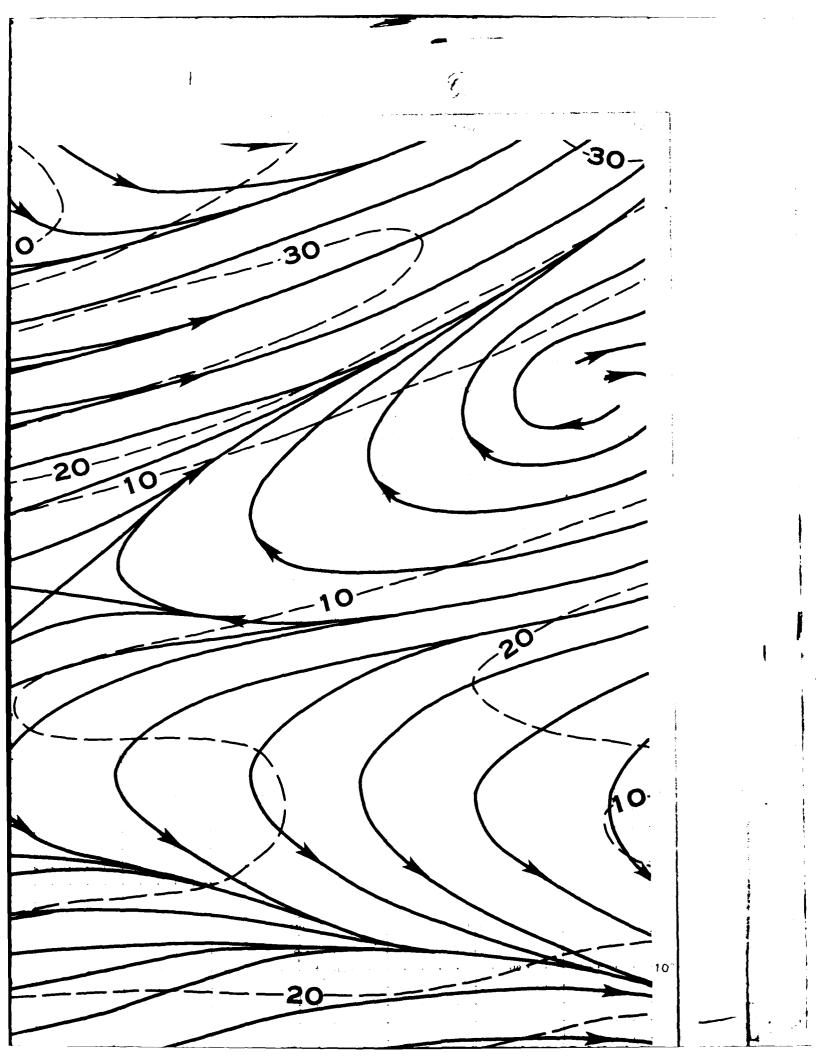


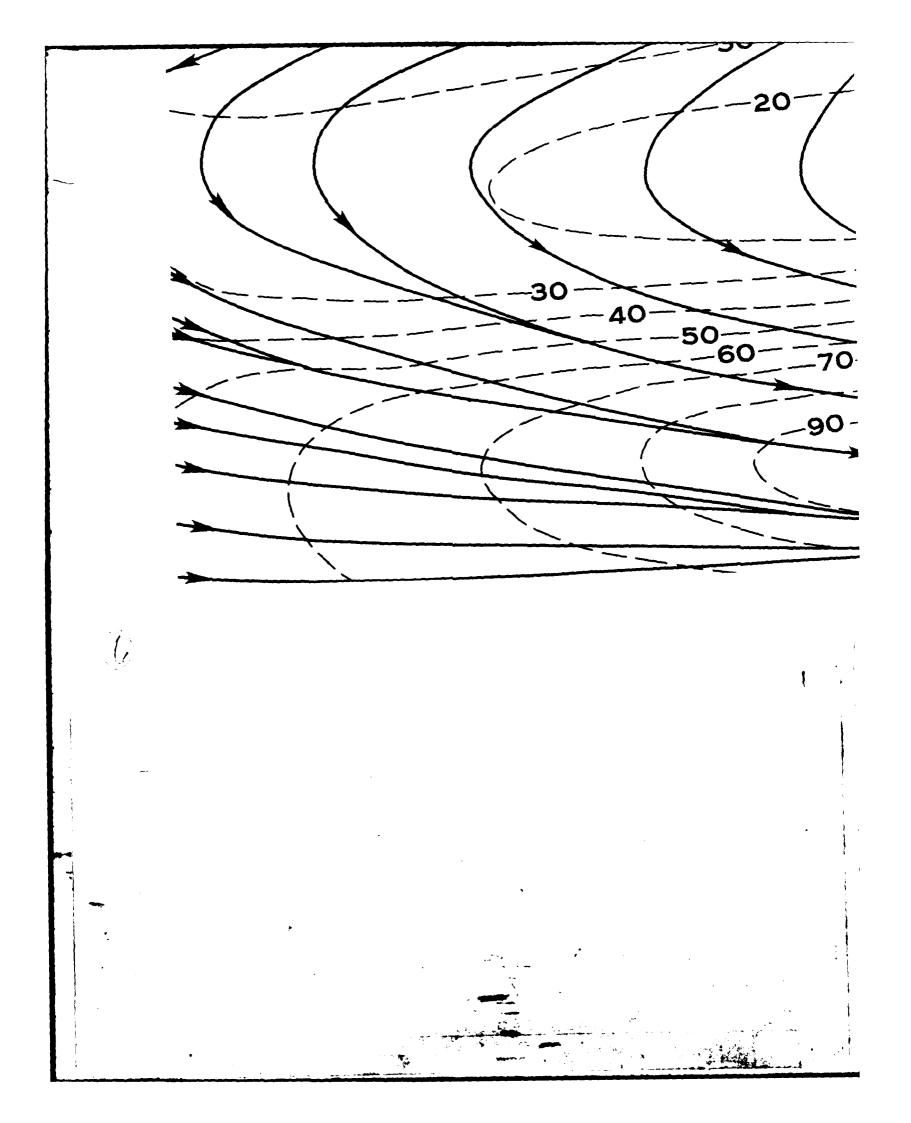


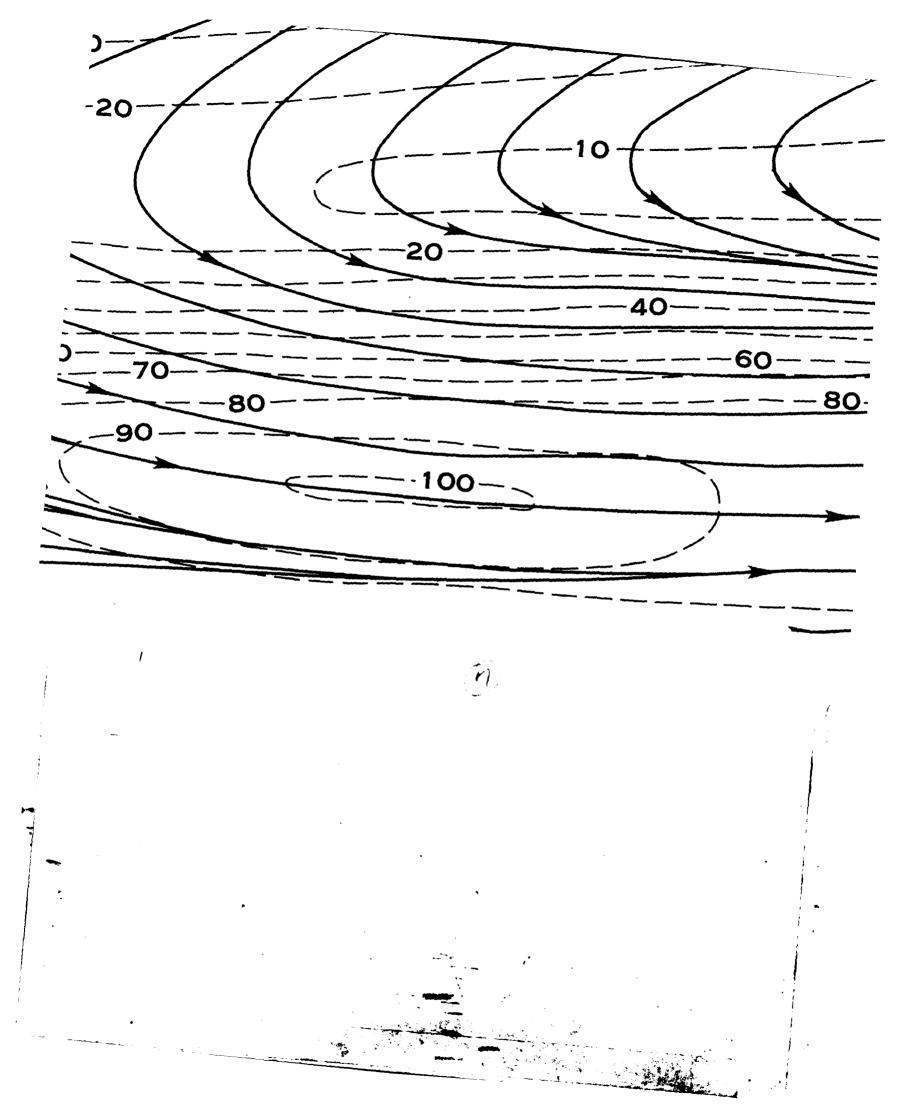
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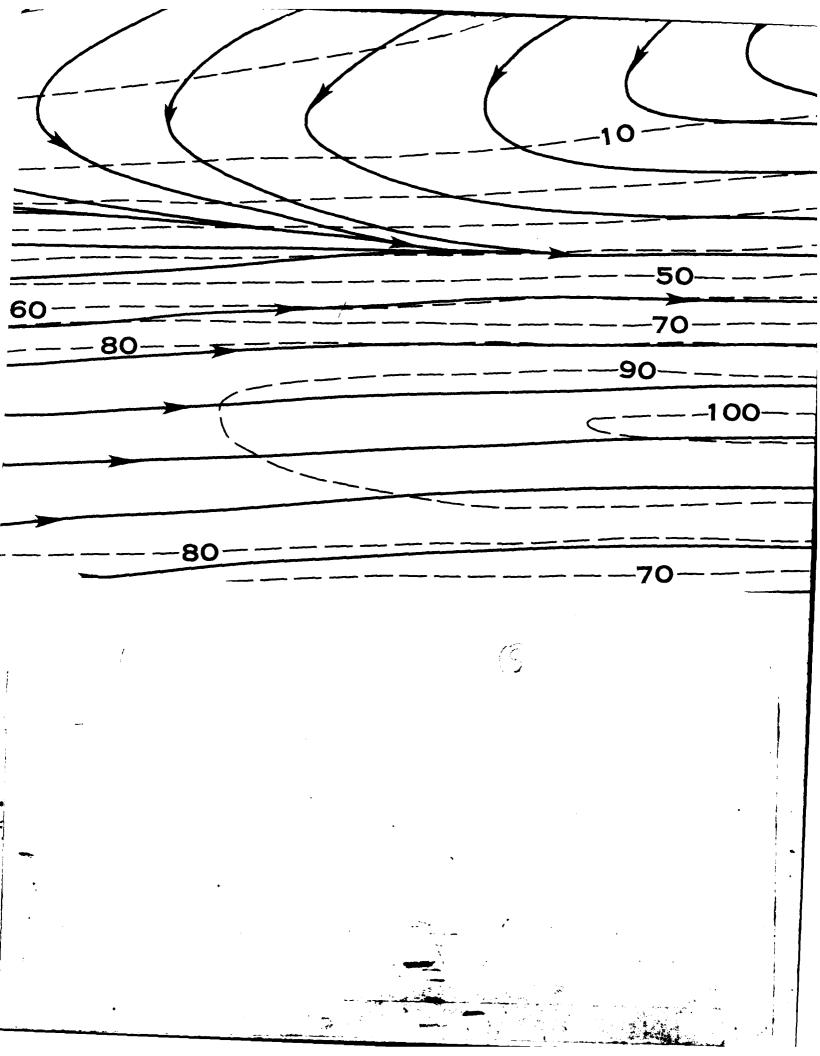
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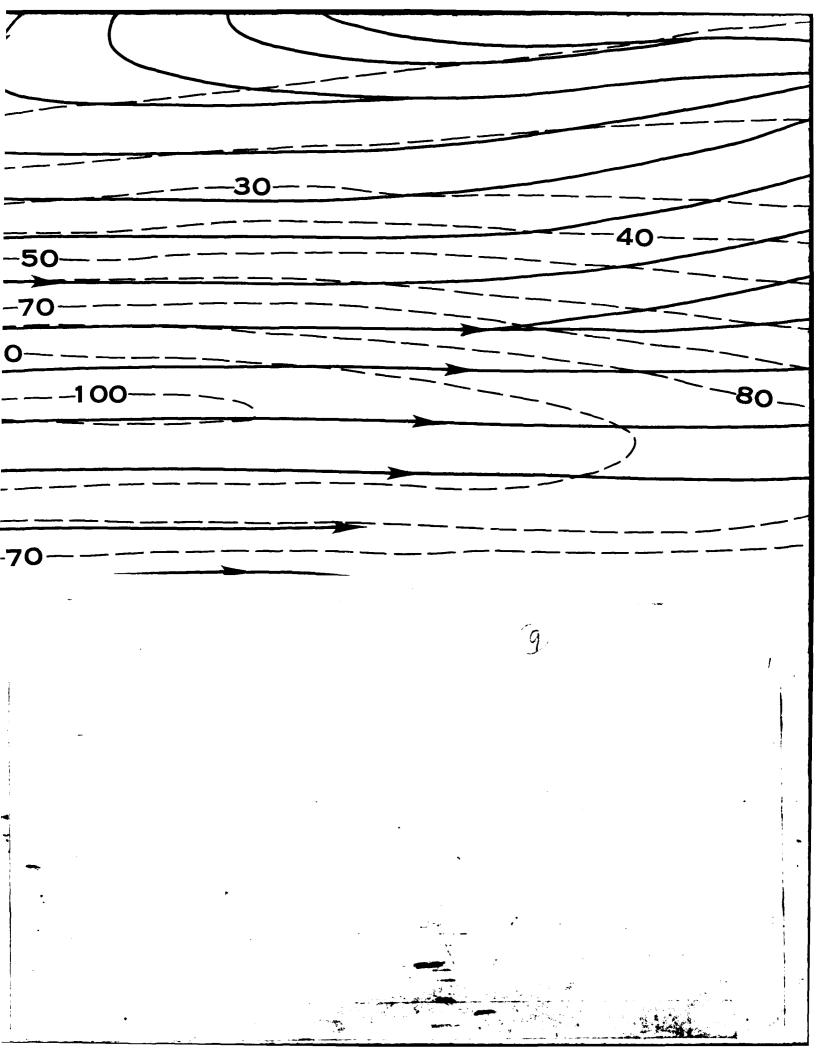
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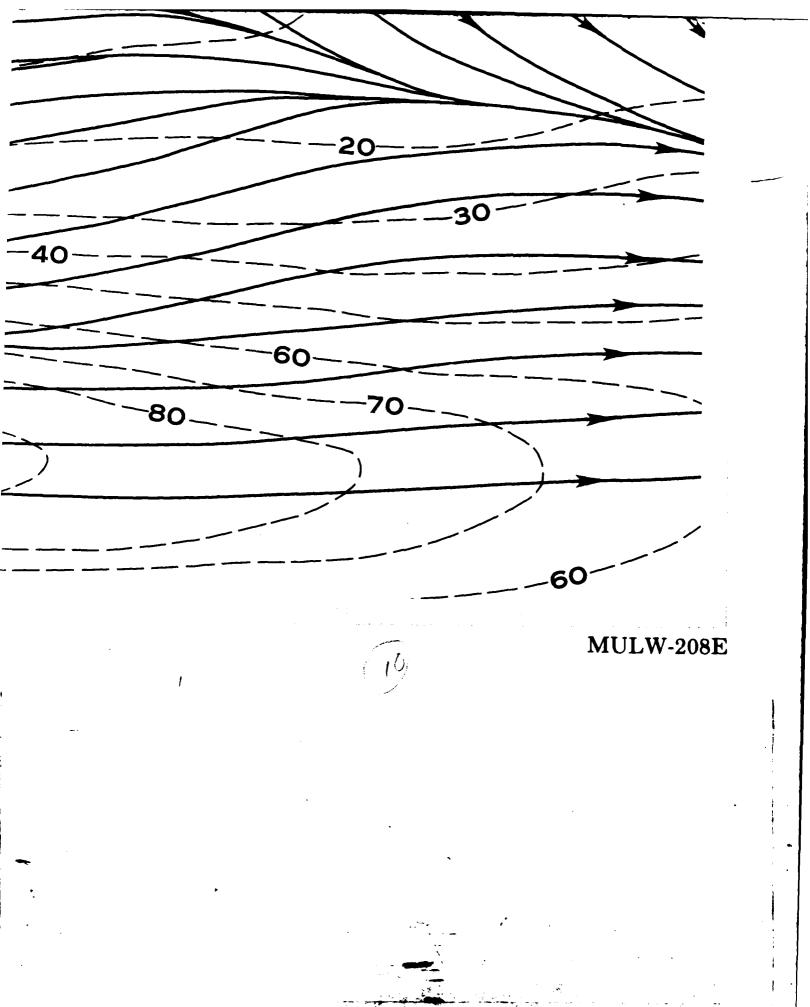


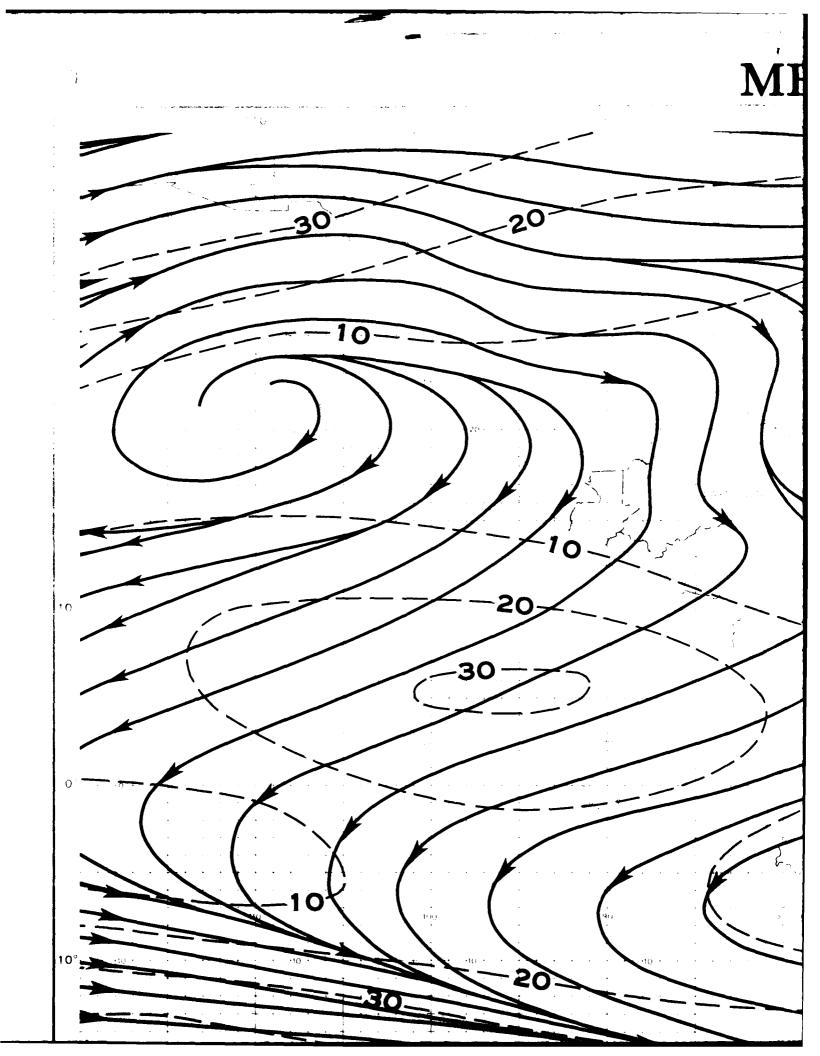






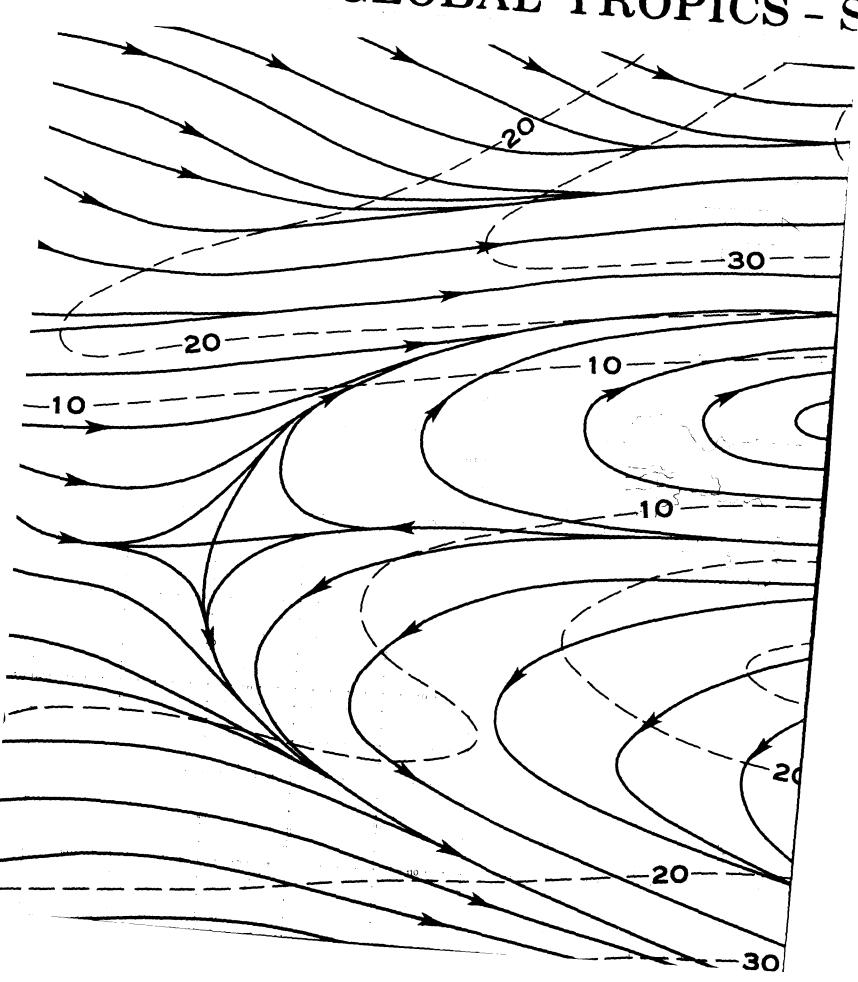




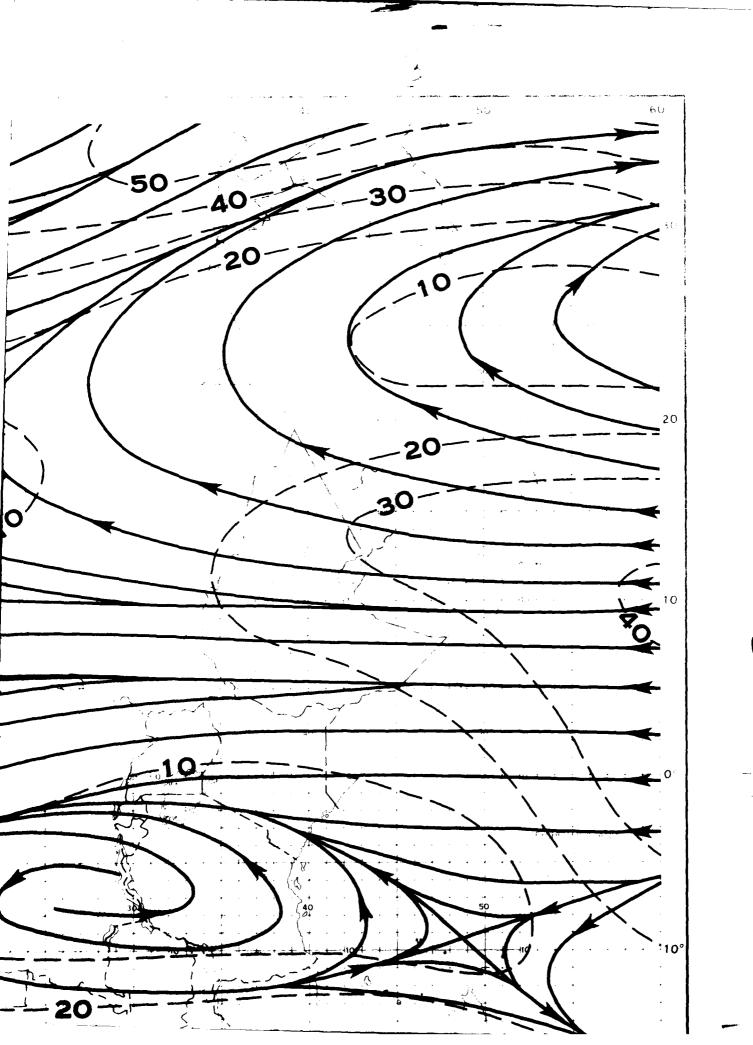


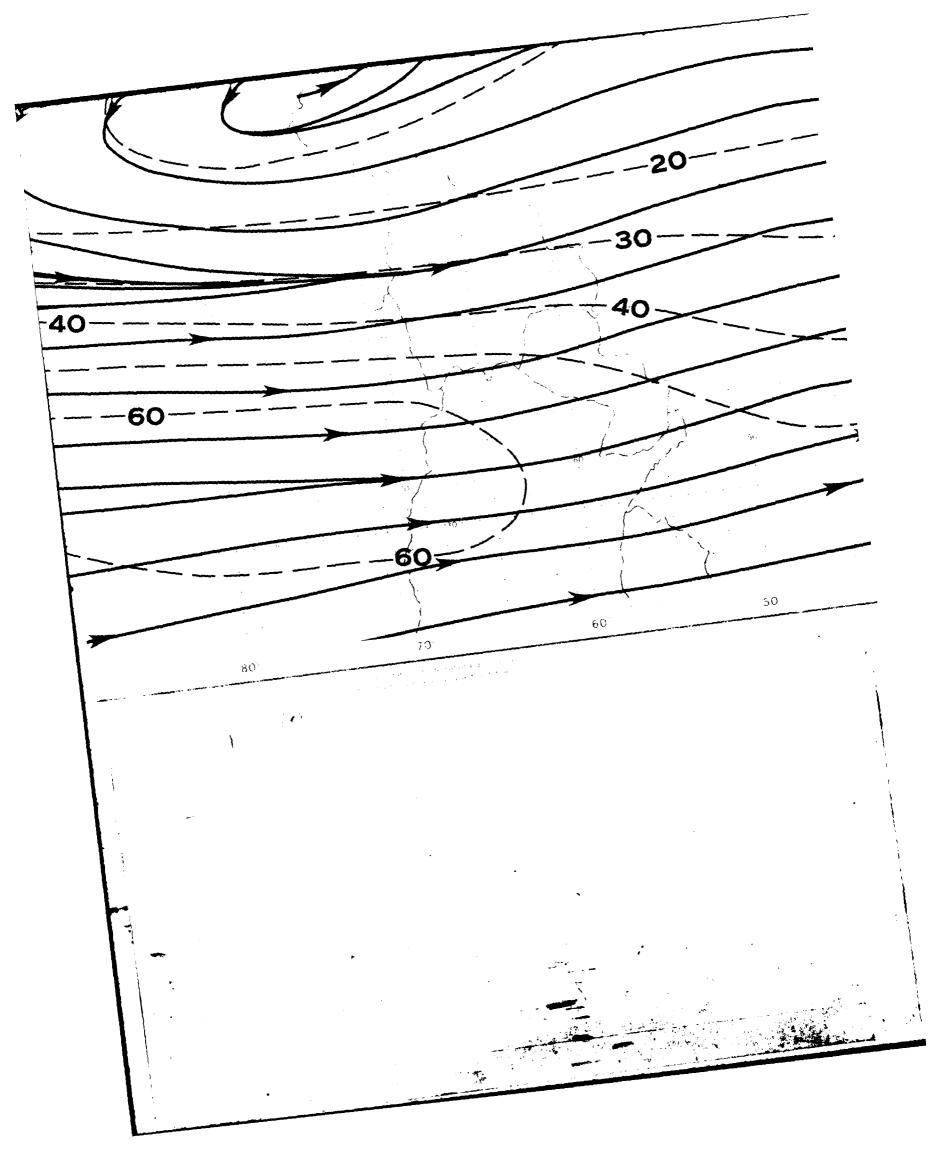
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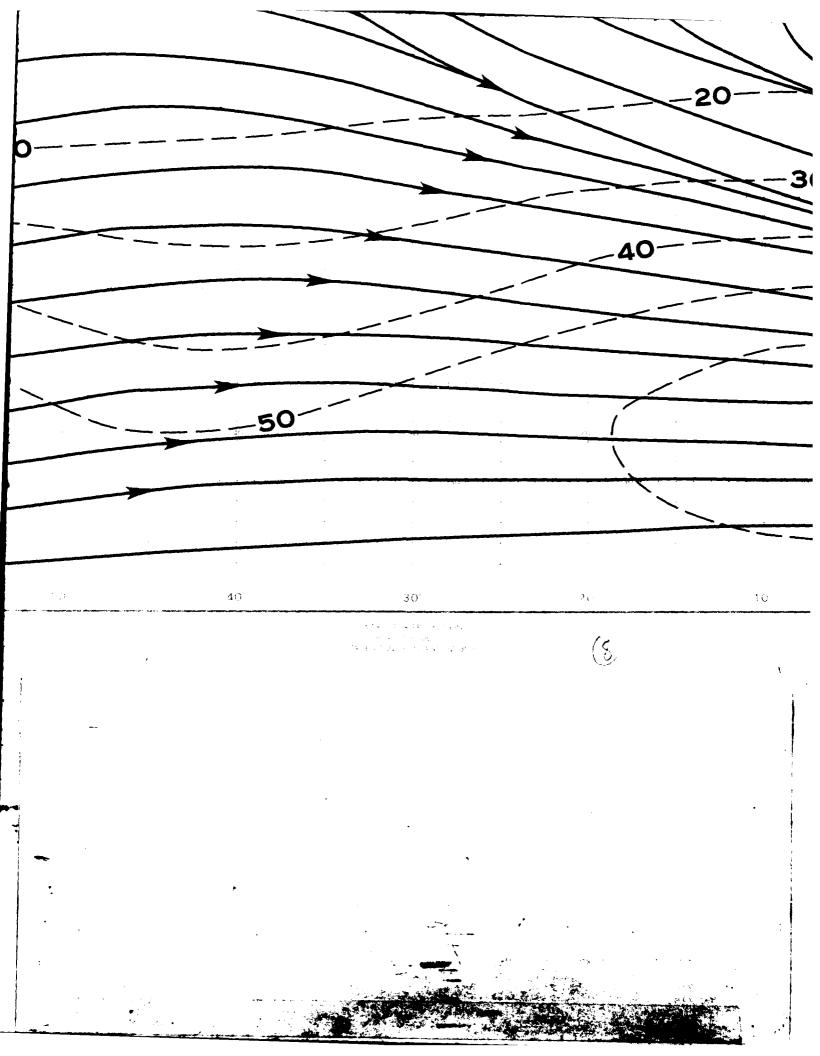
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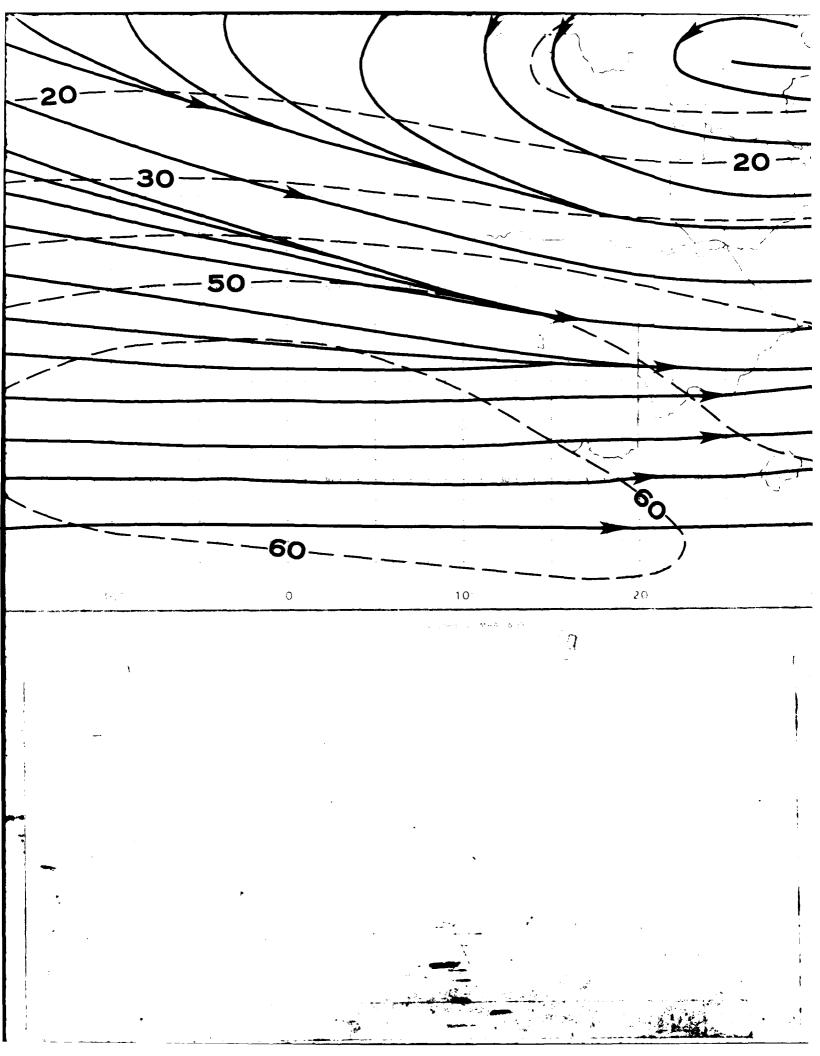


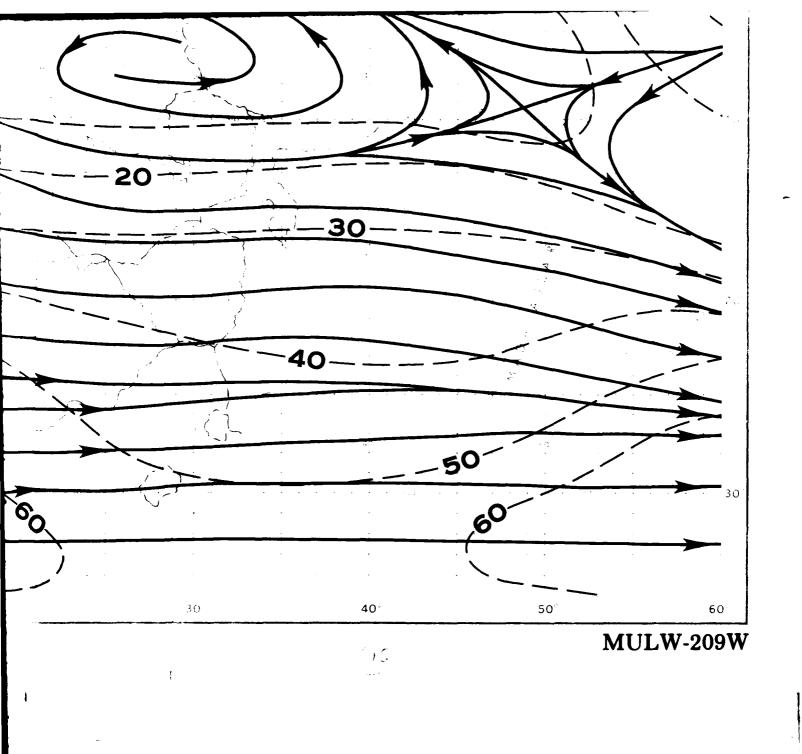
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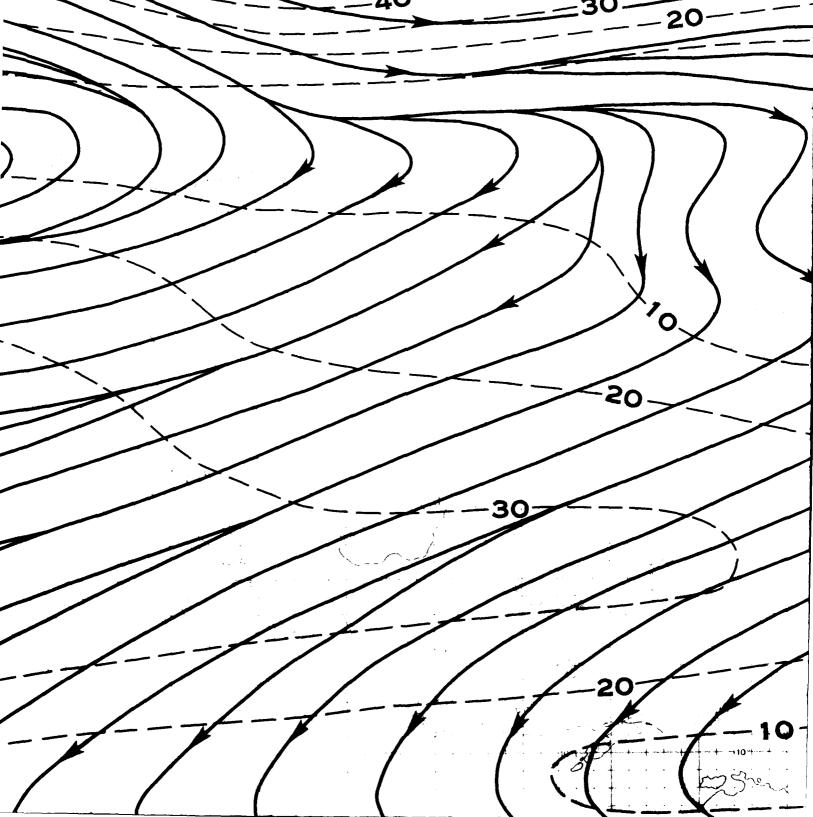


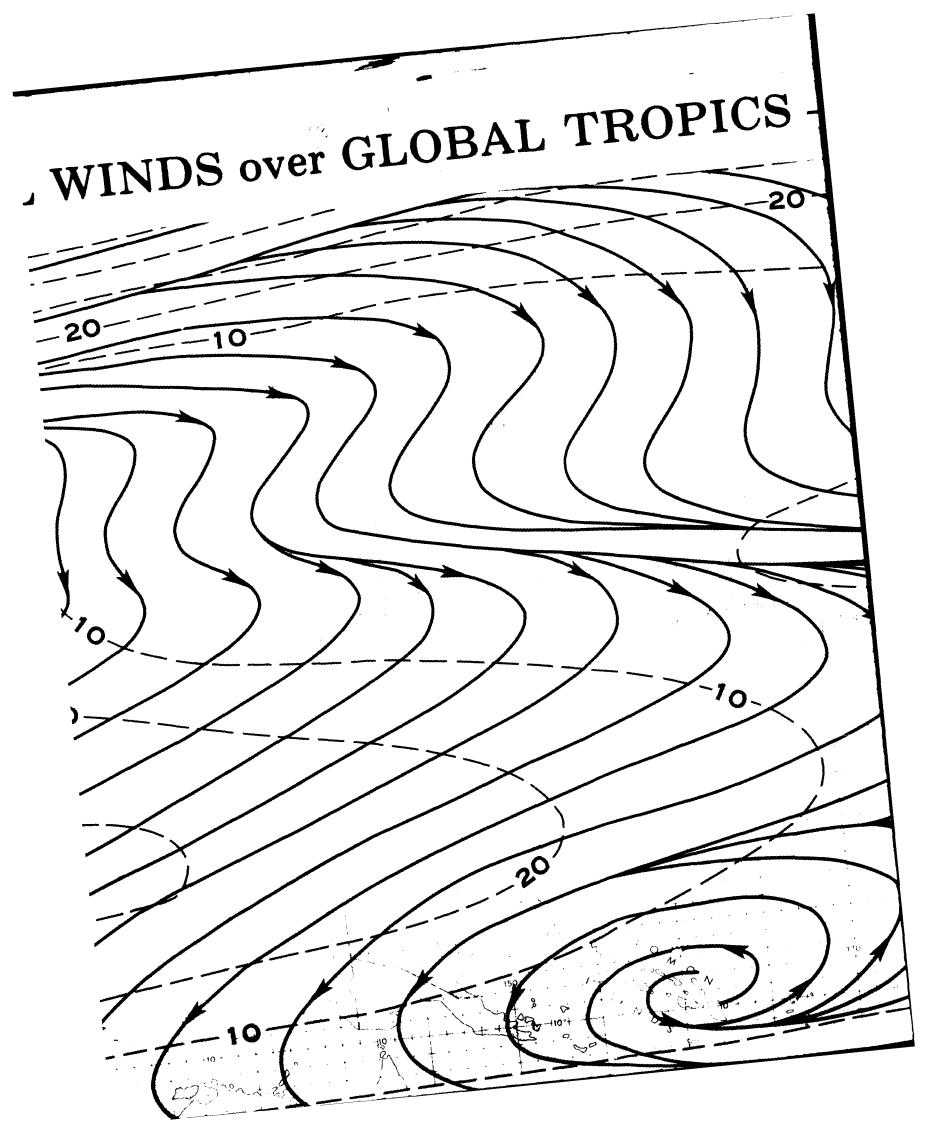


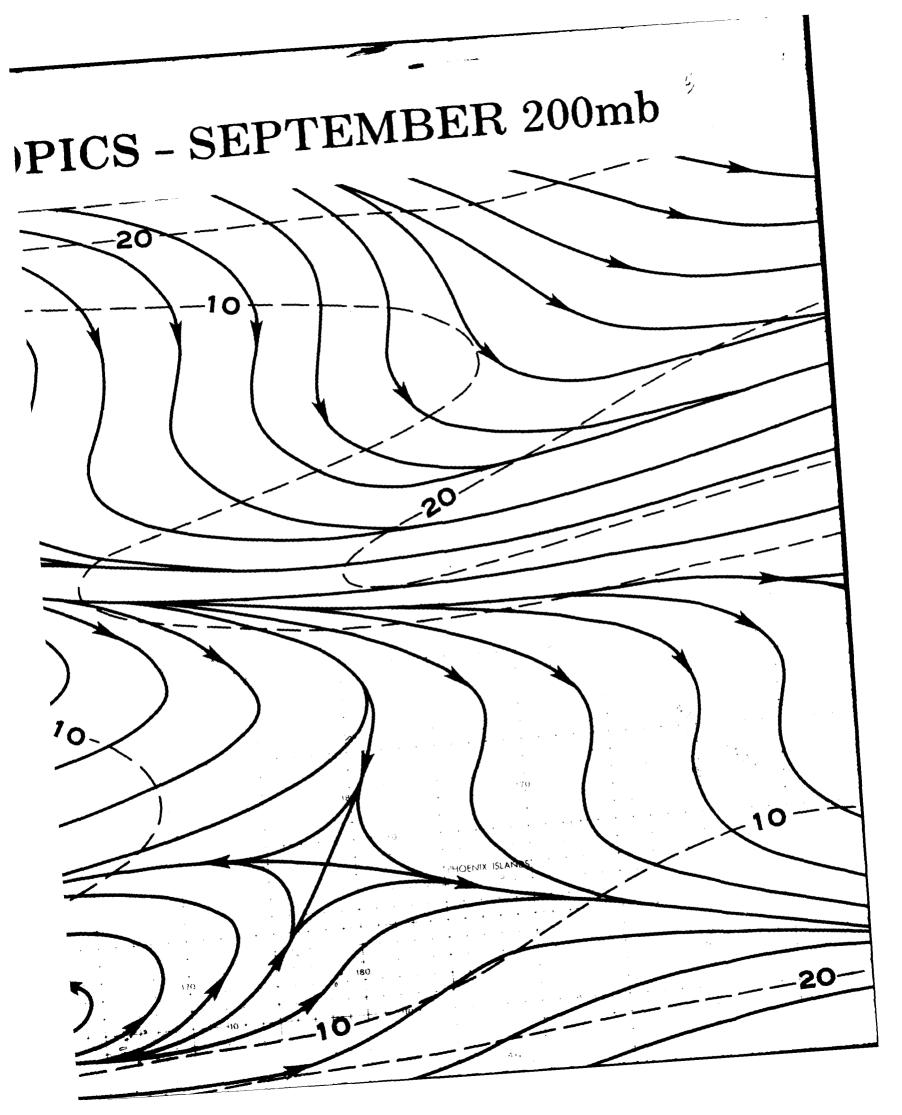


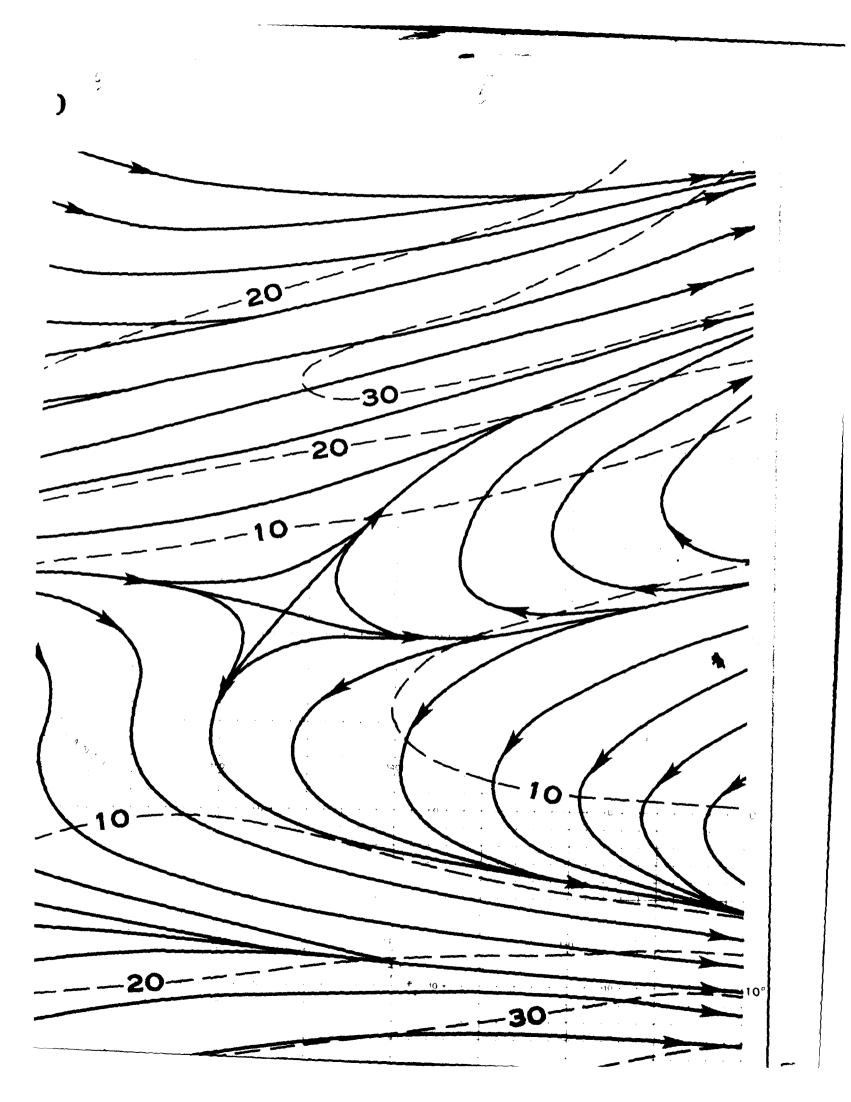


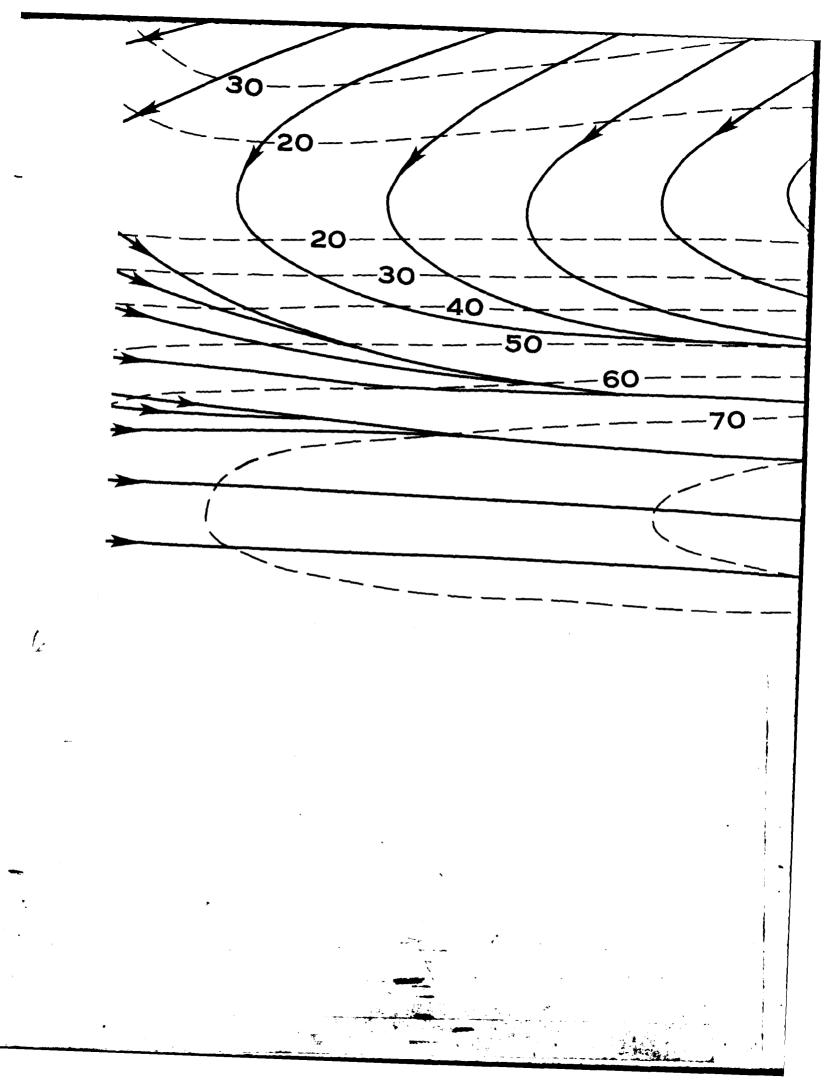
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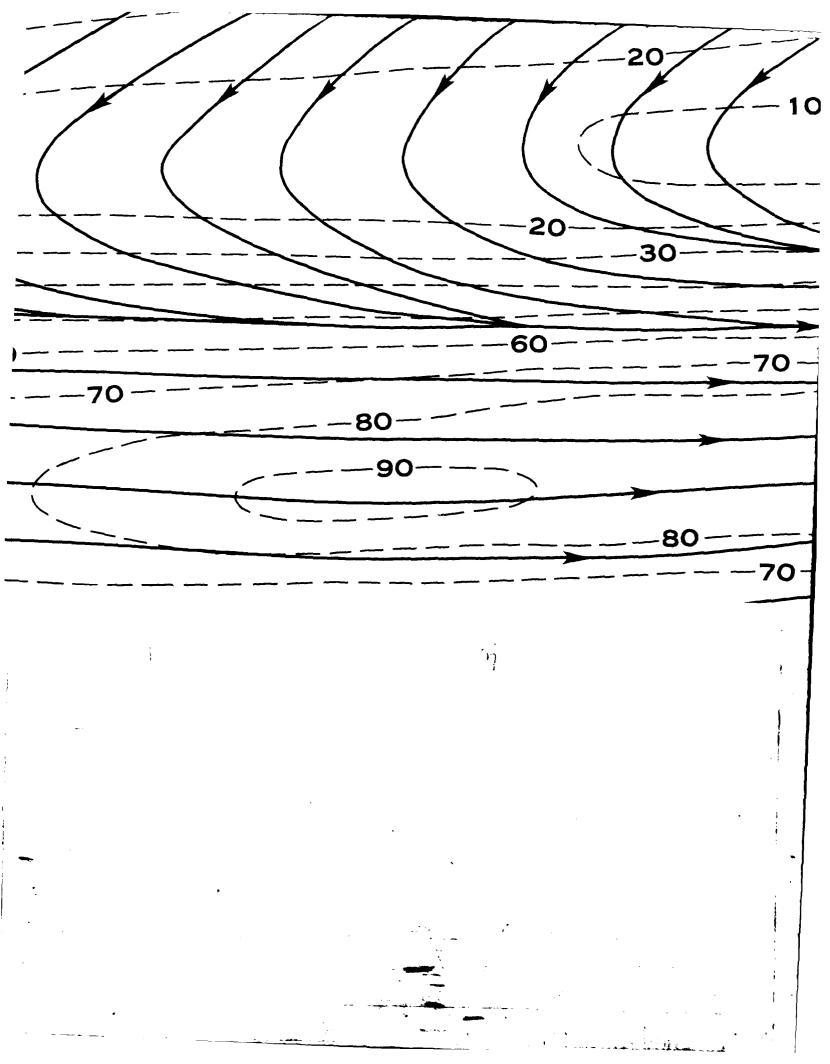


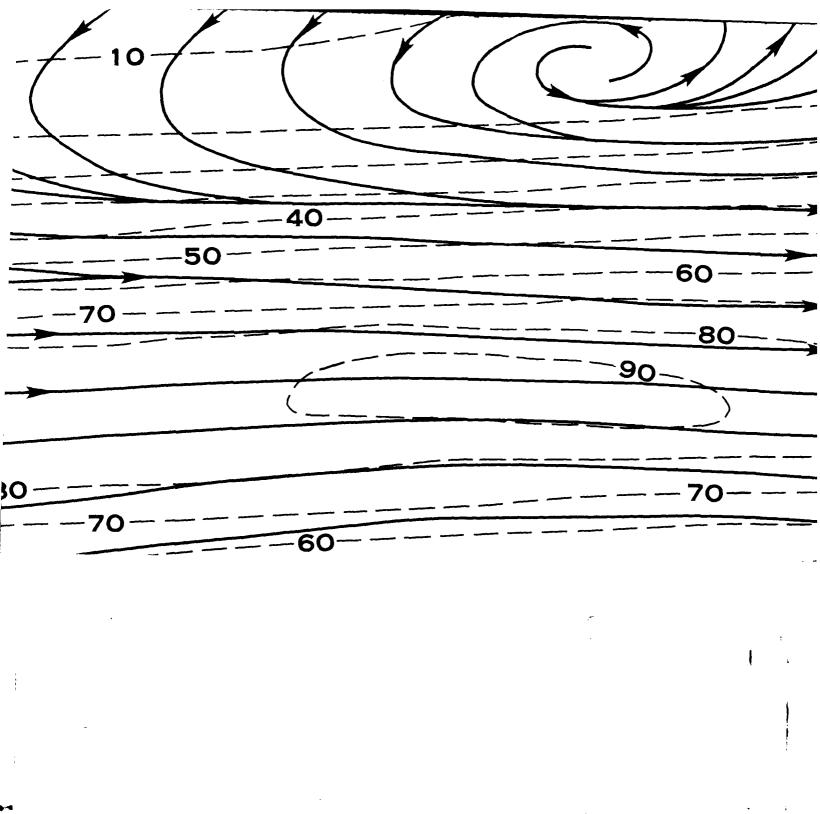


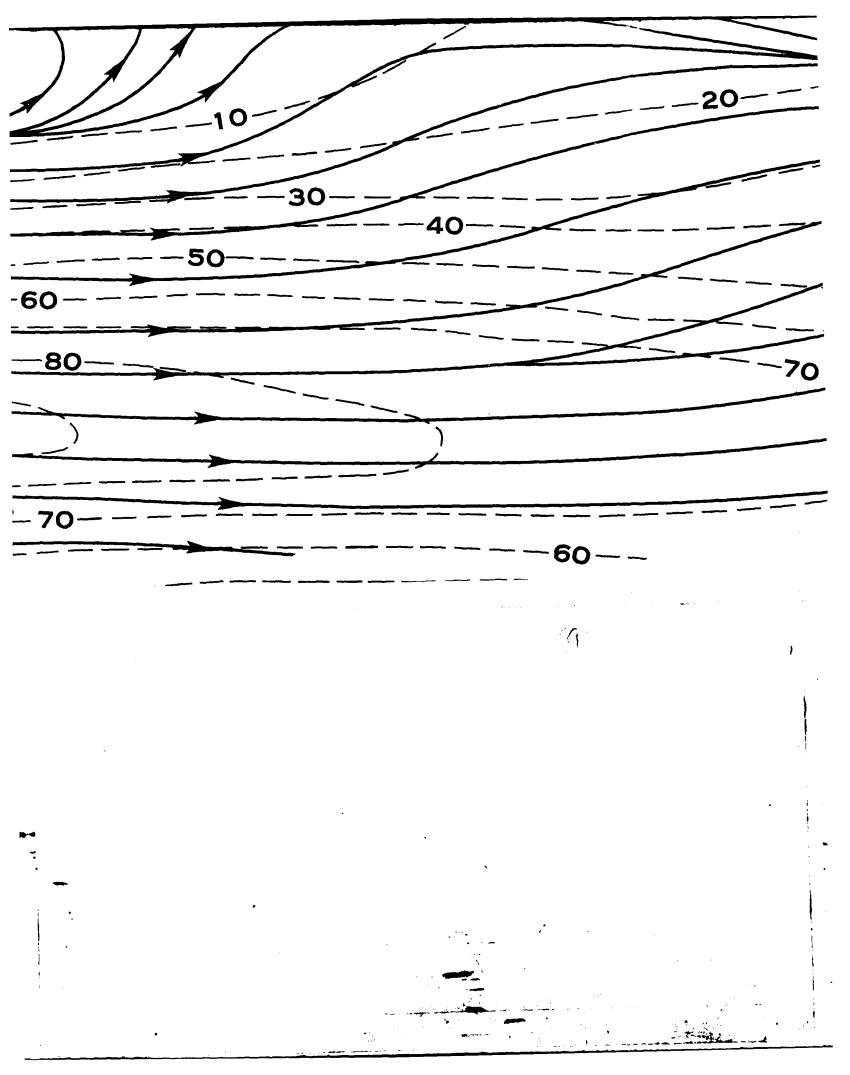


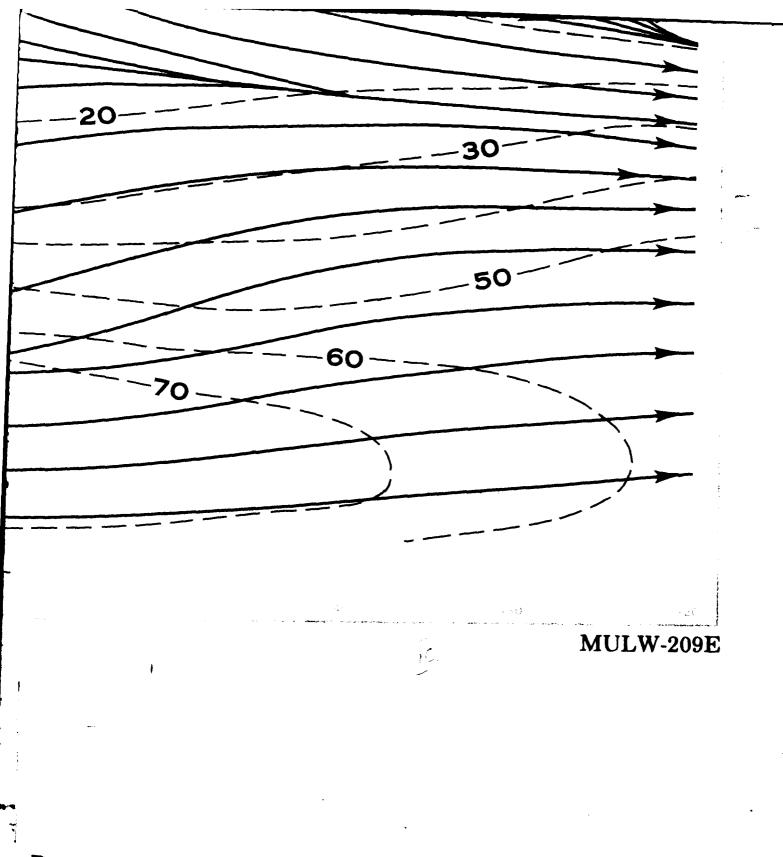


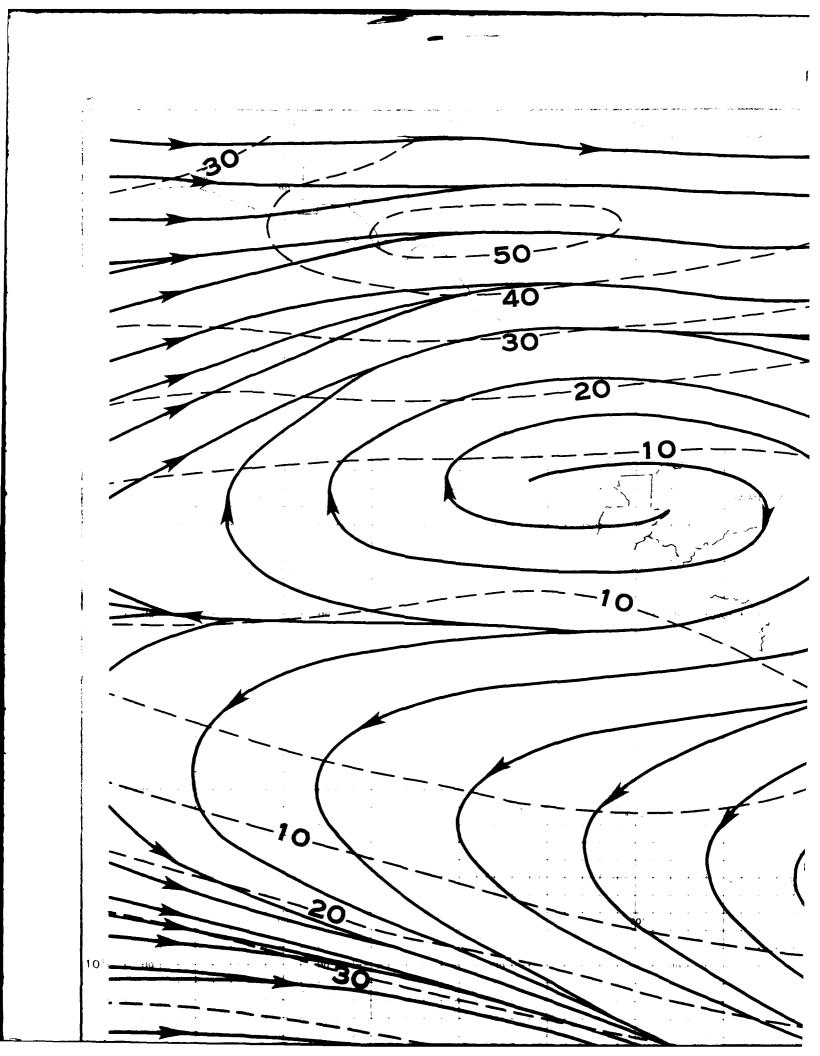






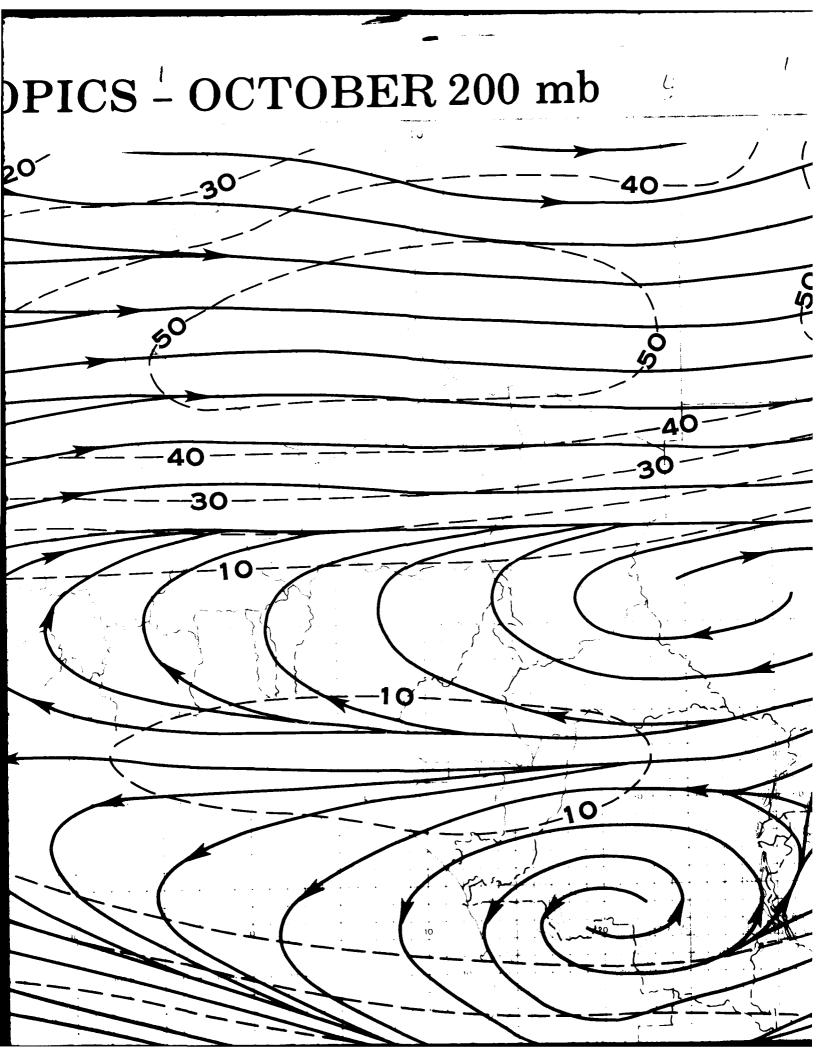


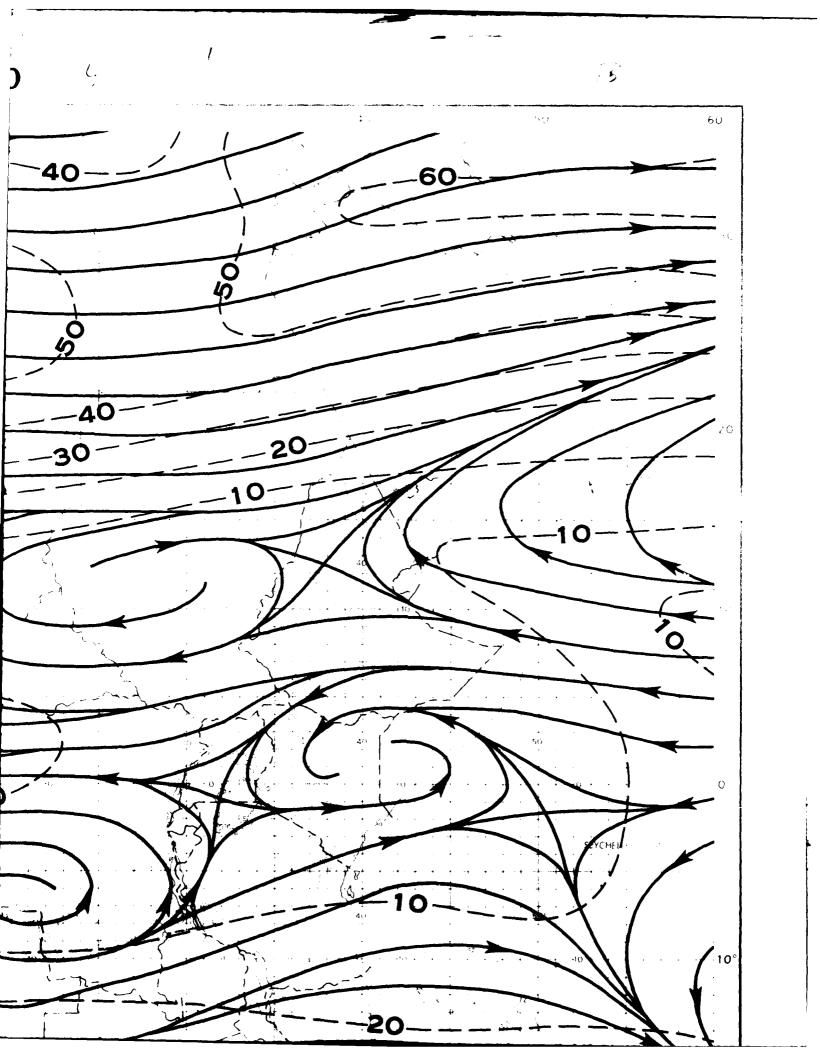


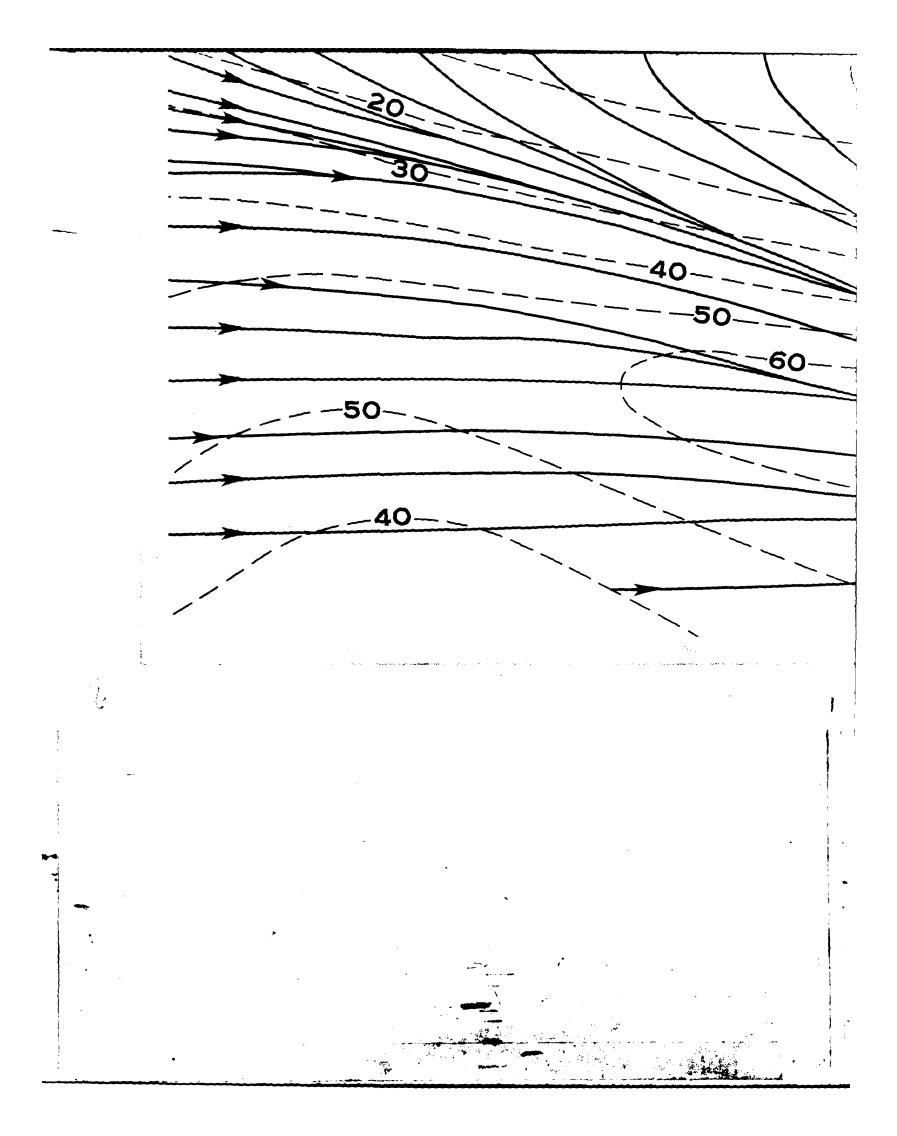


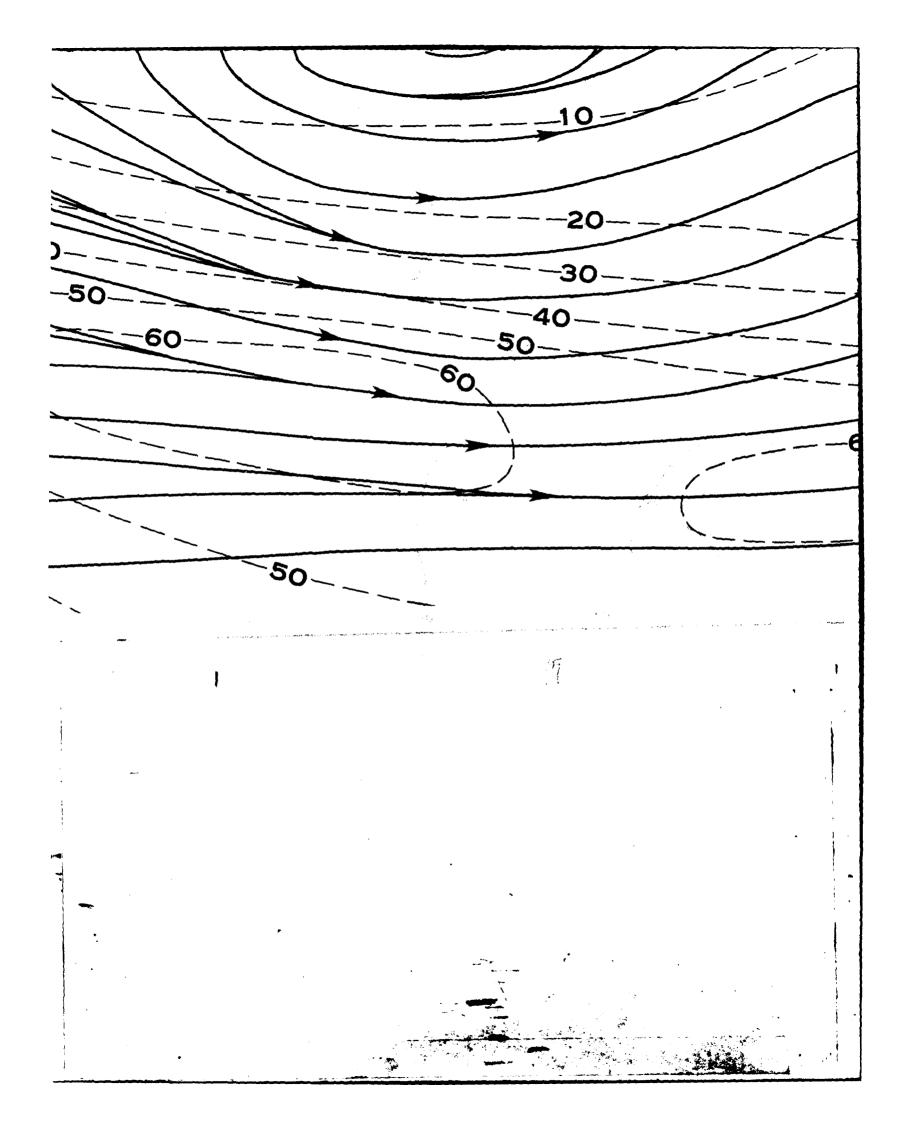
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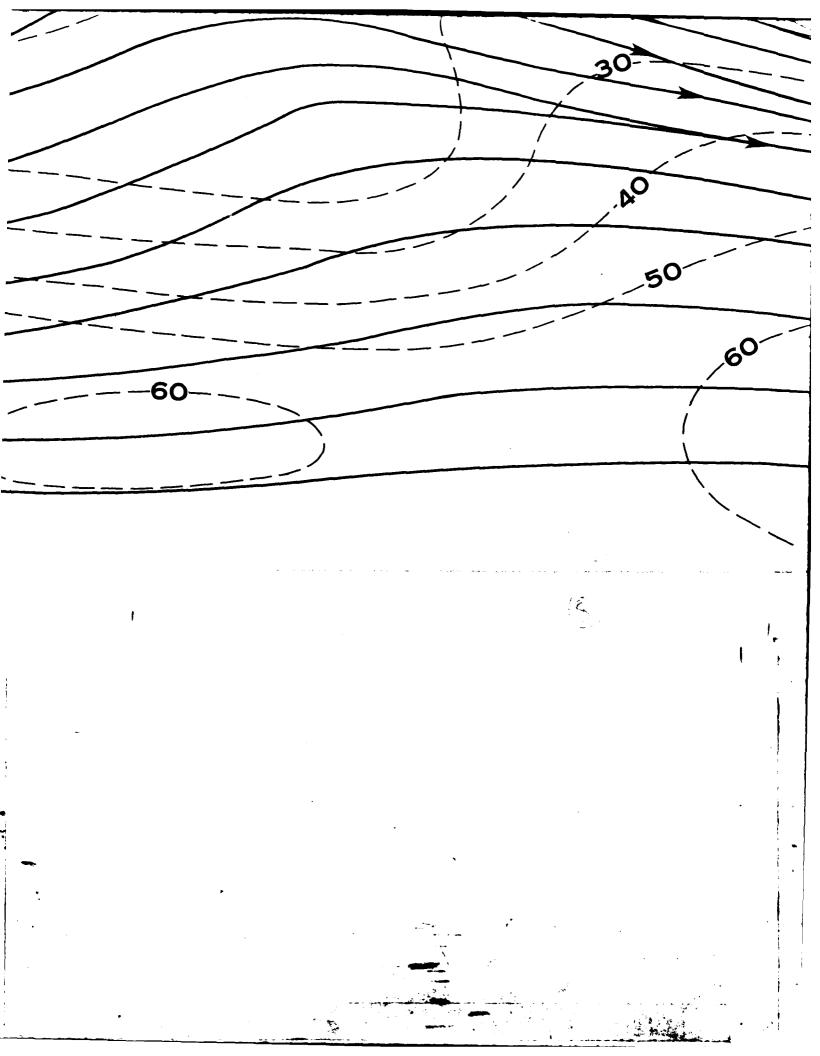
## WINDS over GLOBAL TROPICS -

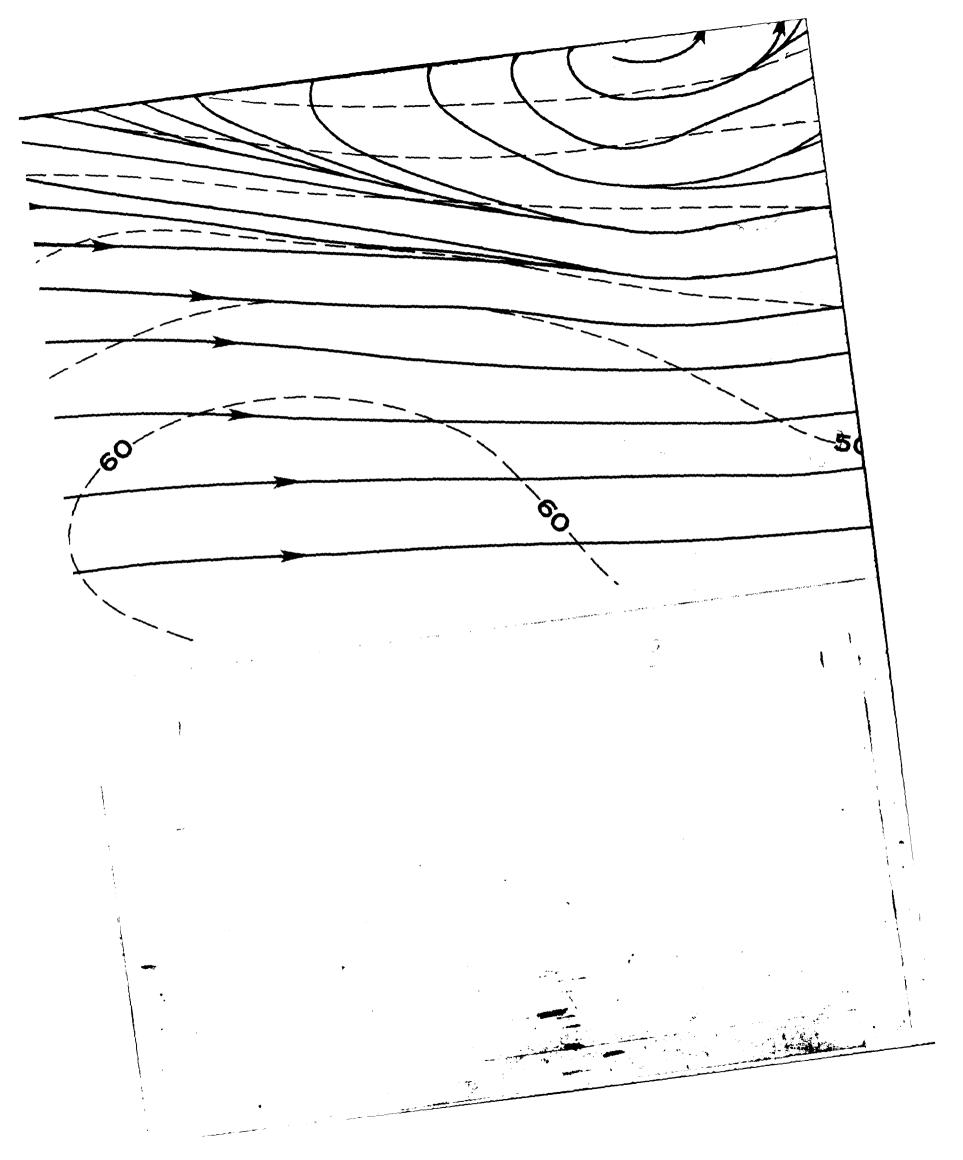


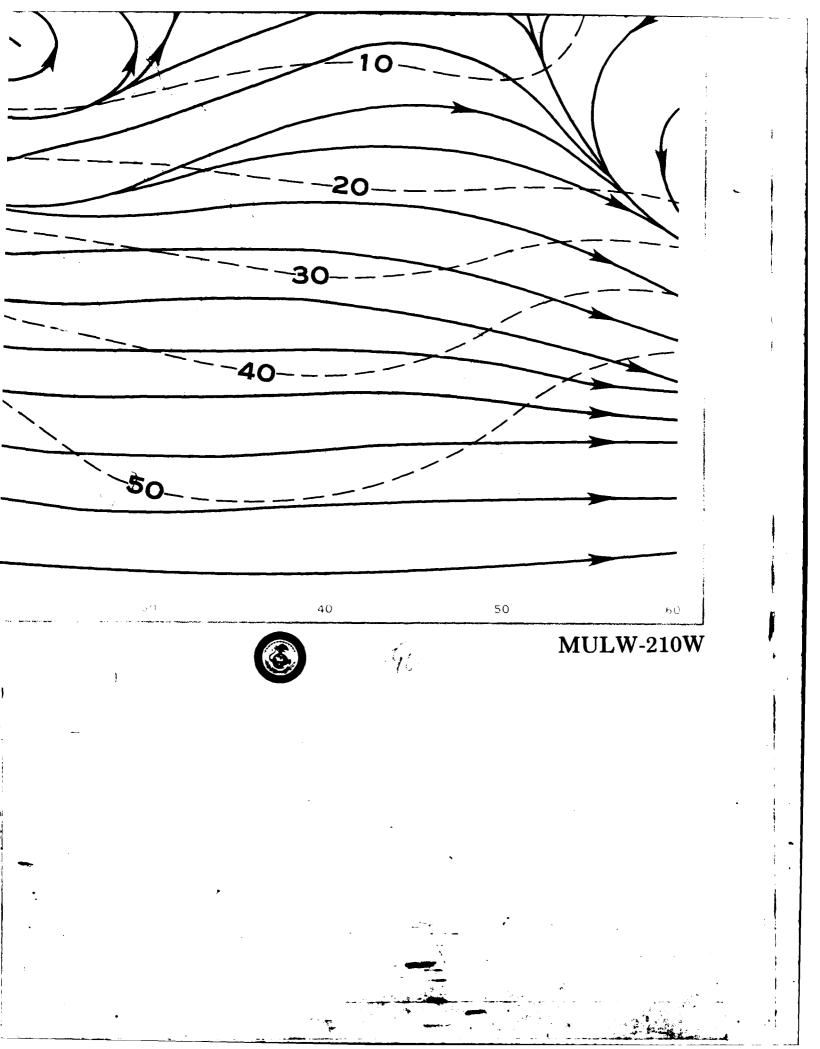




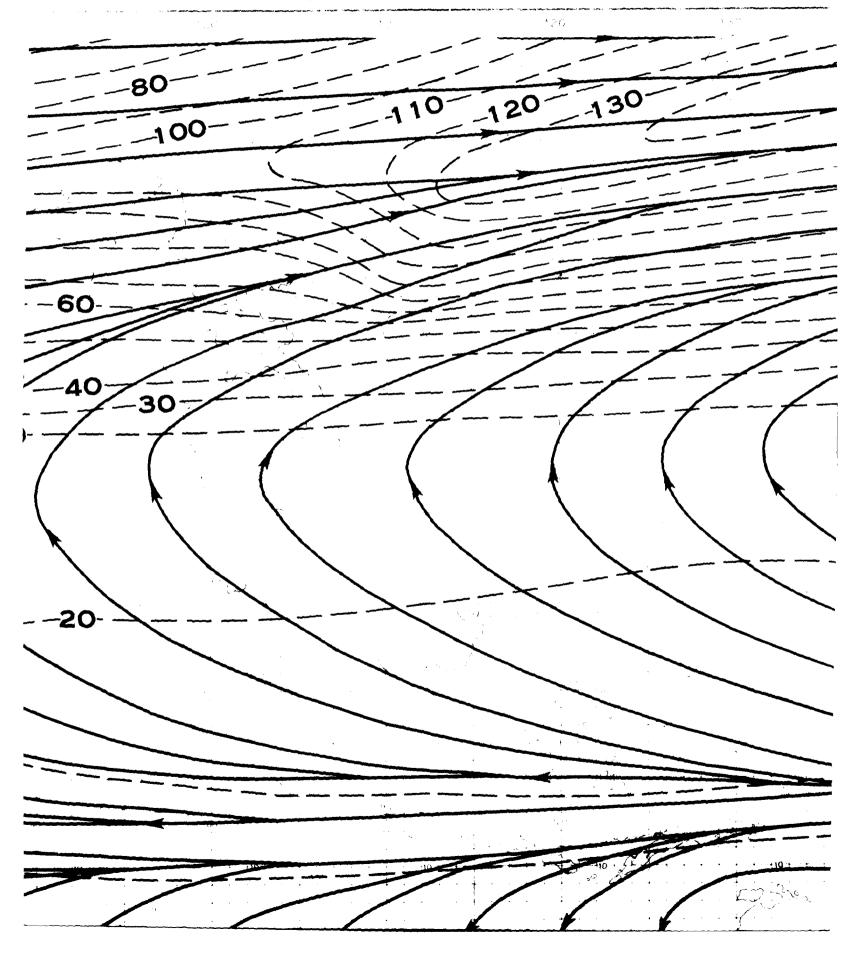




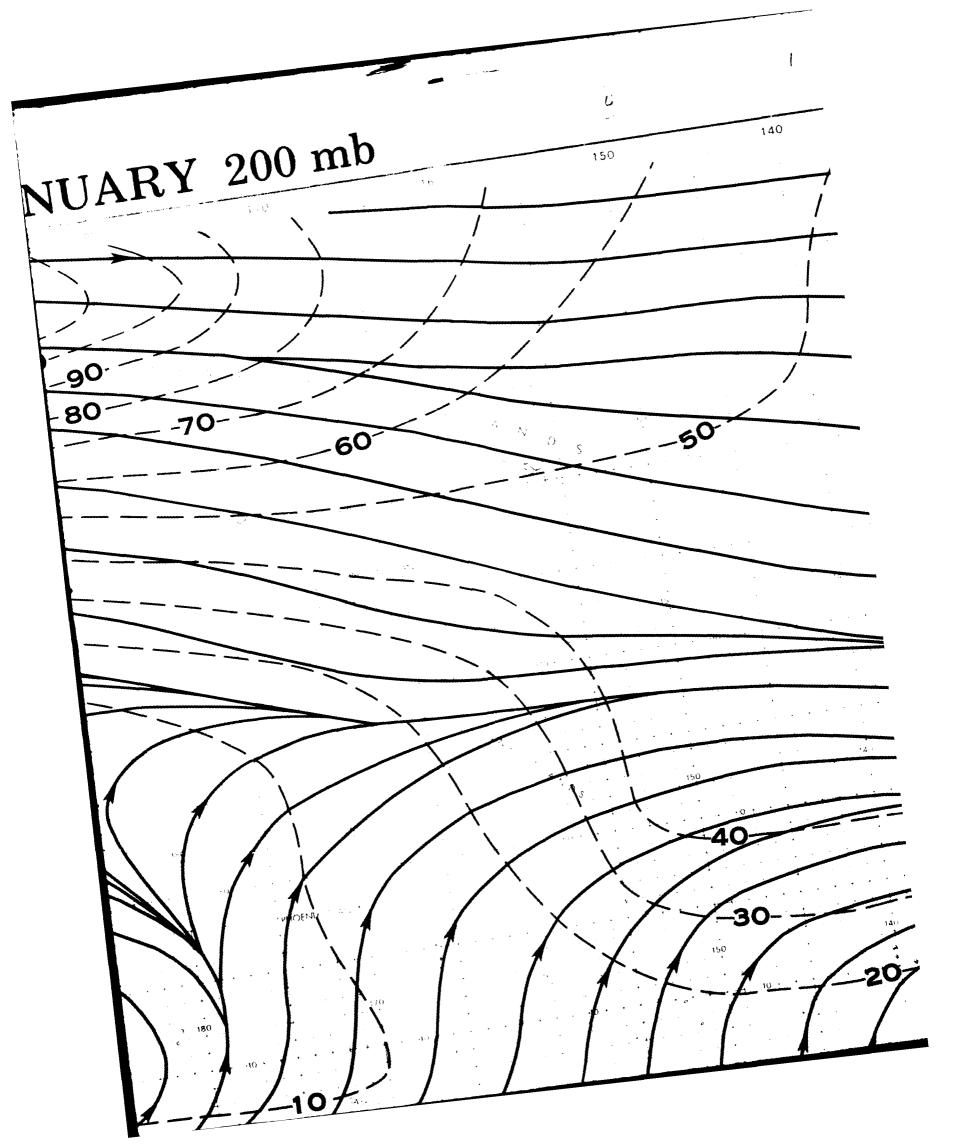


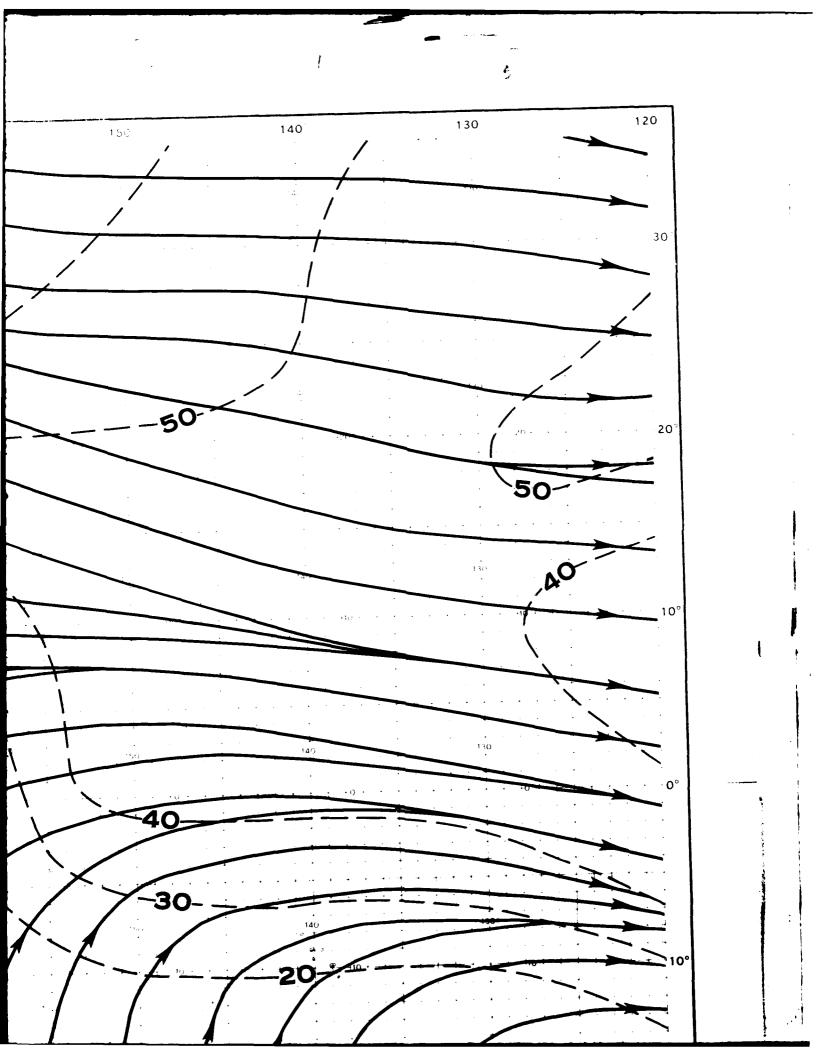


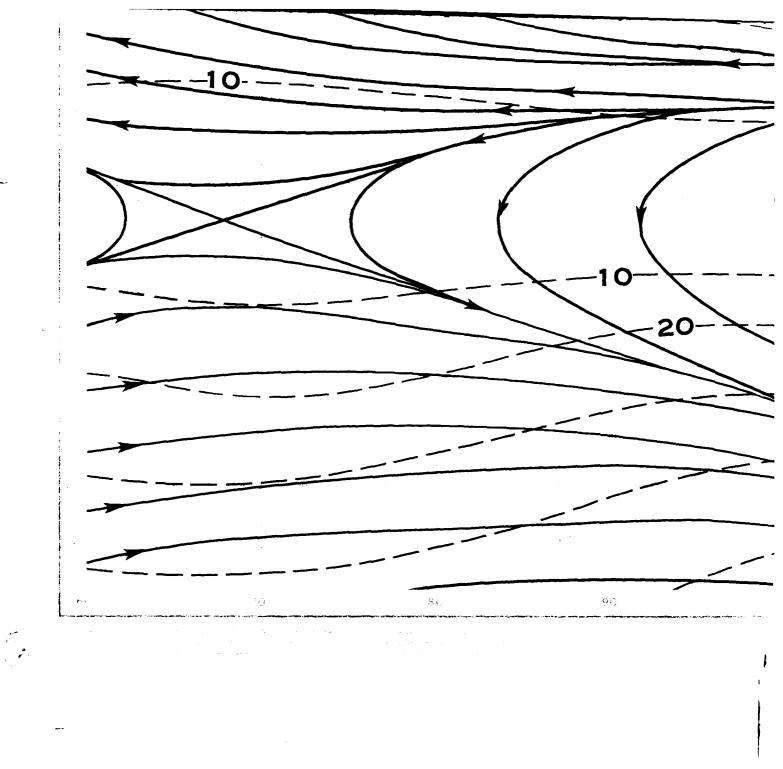
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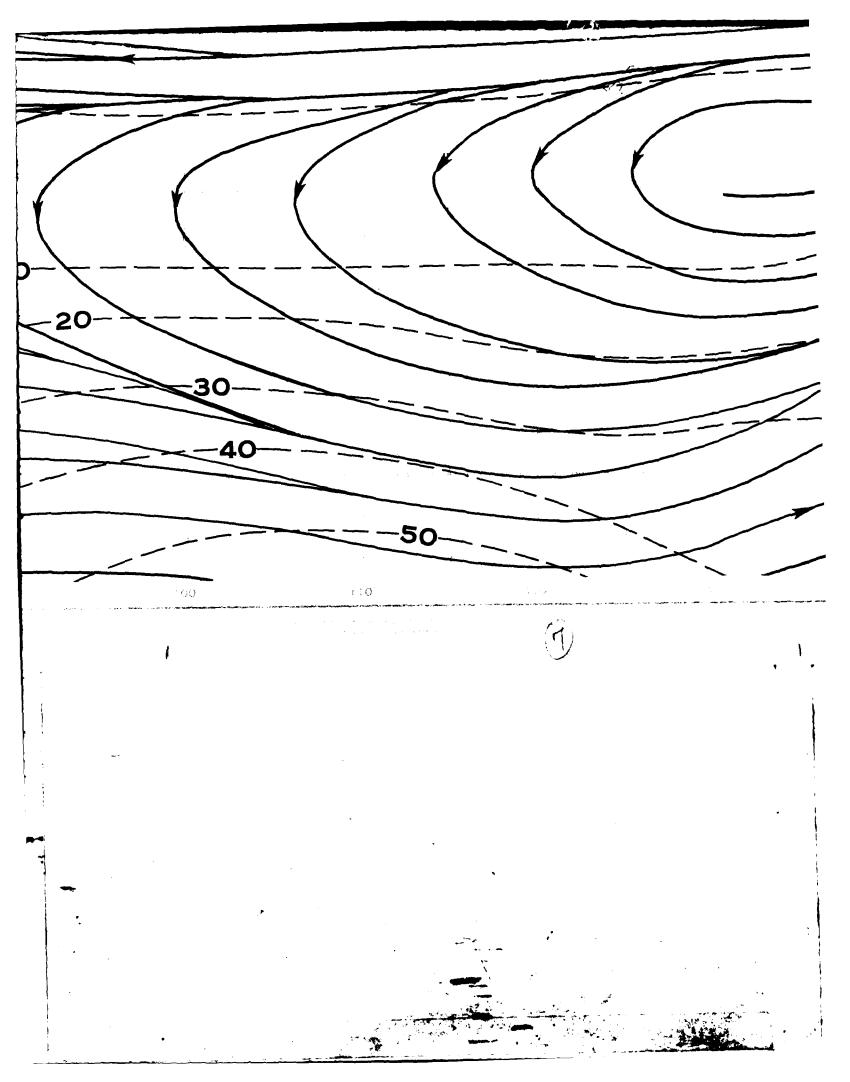


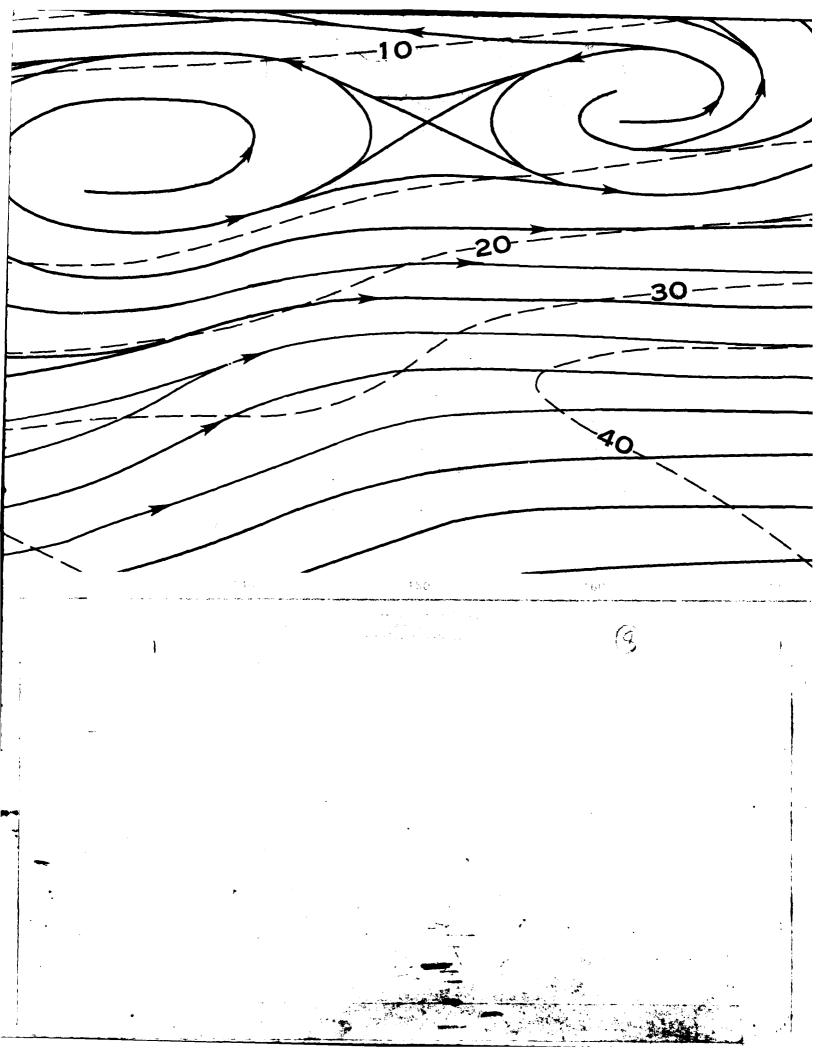
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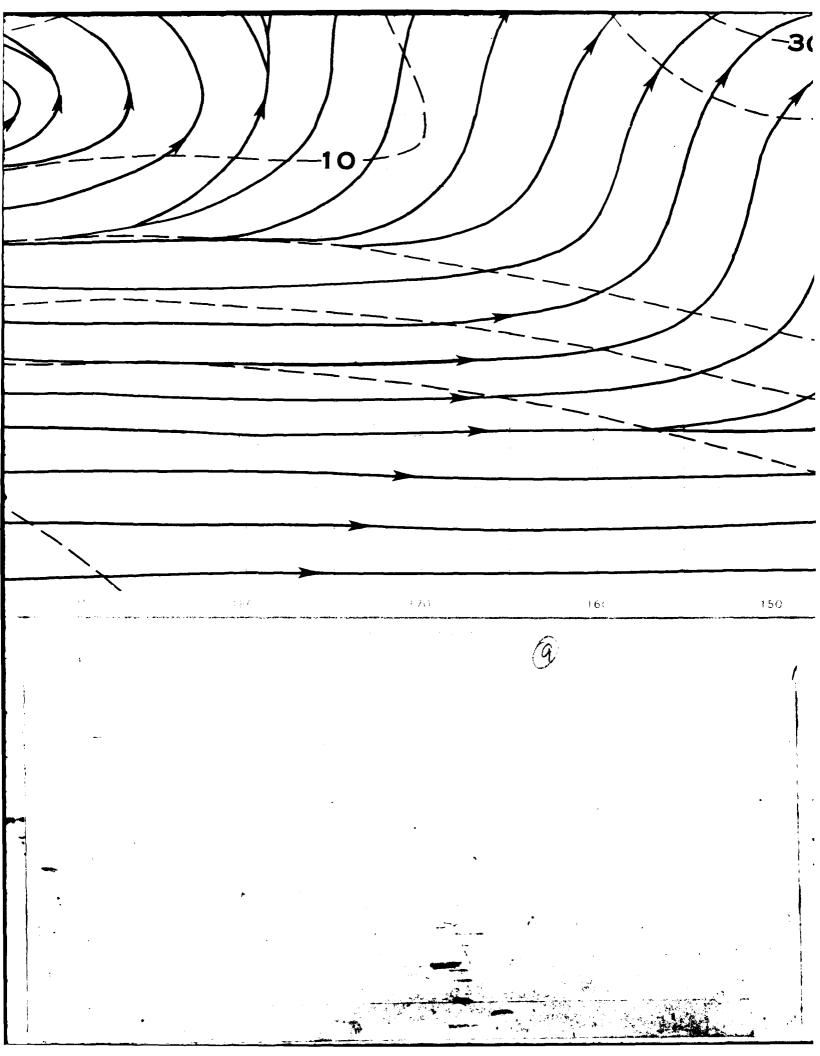


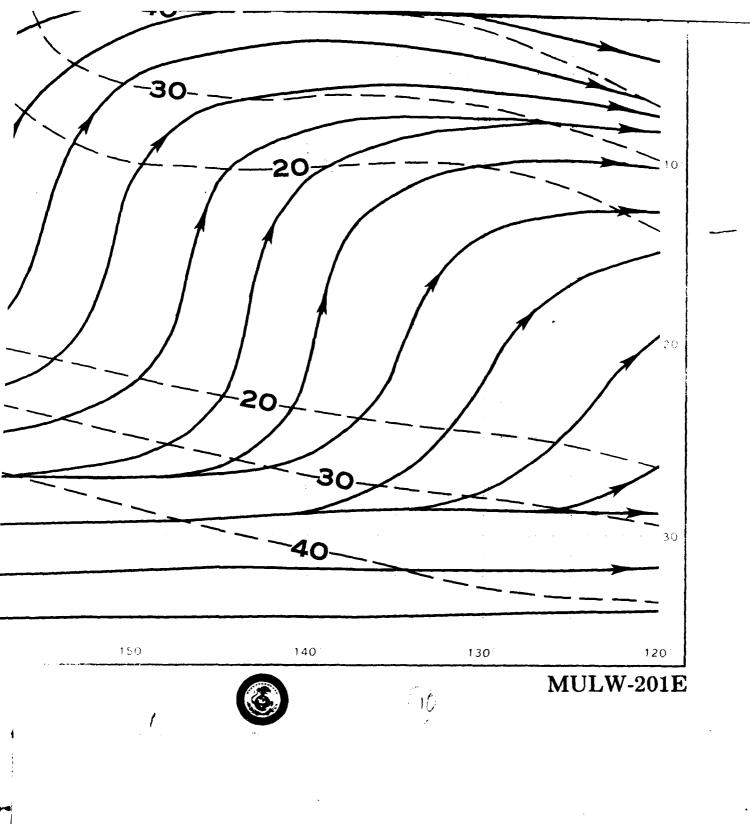






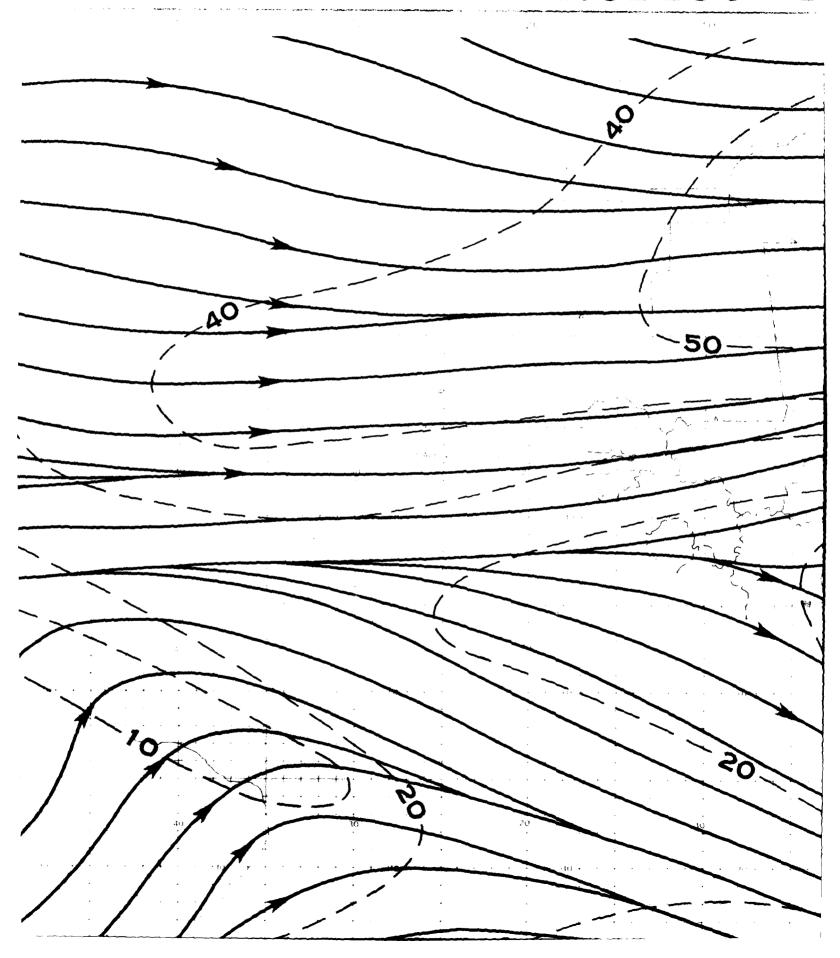




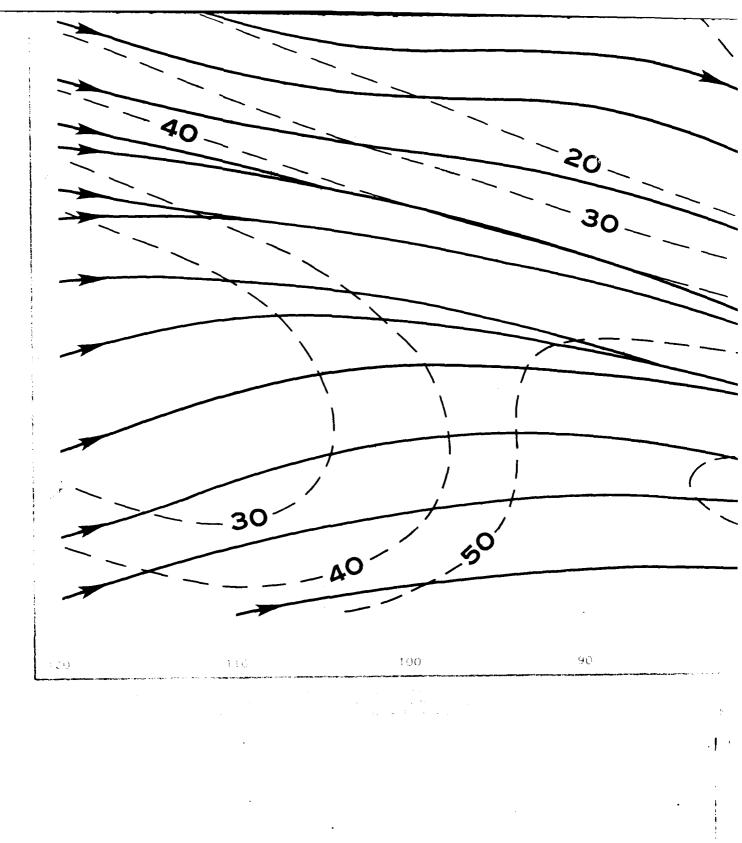


# MEAN UPPER LEVEL WINI

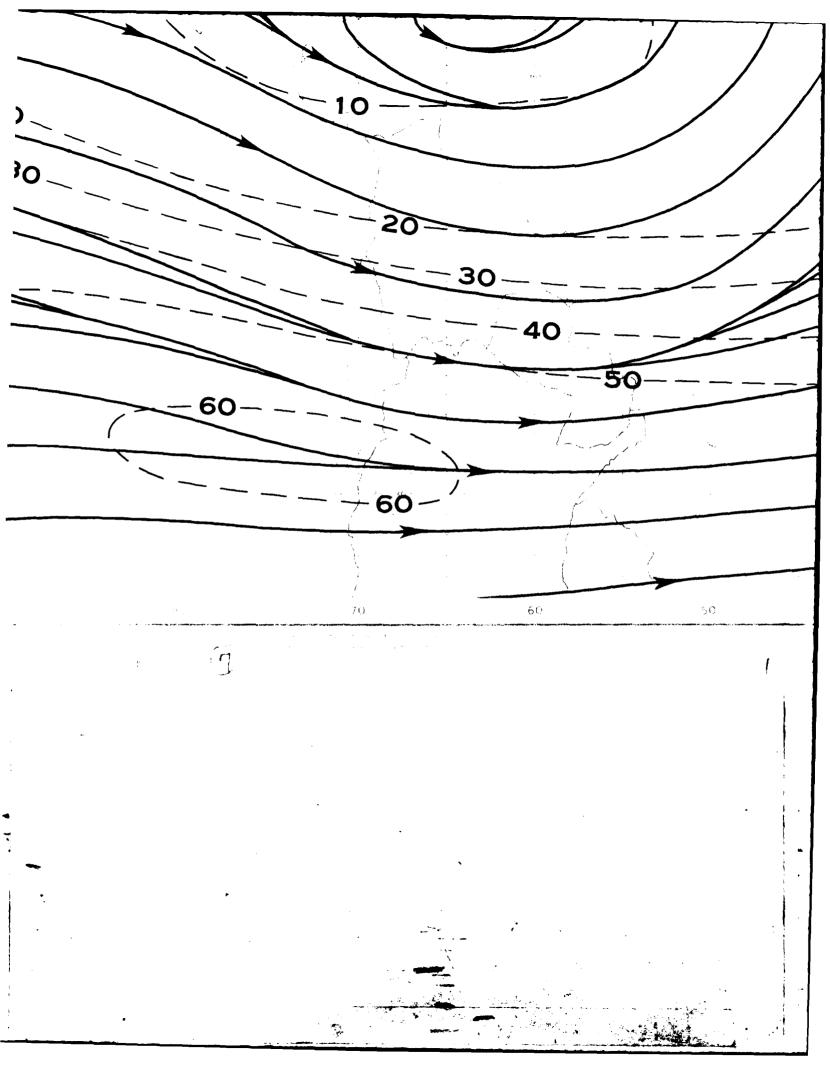
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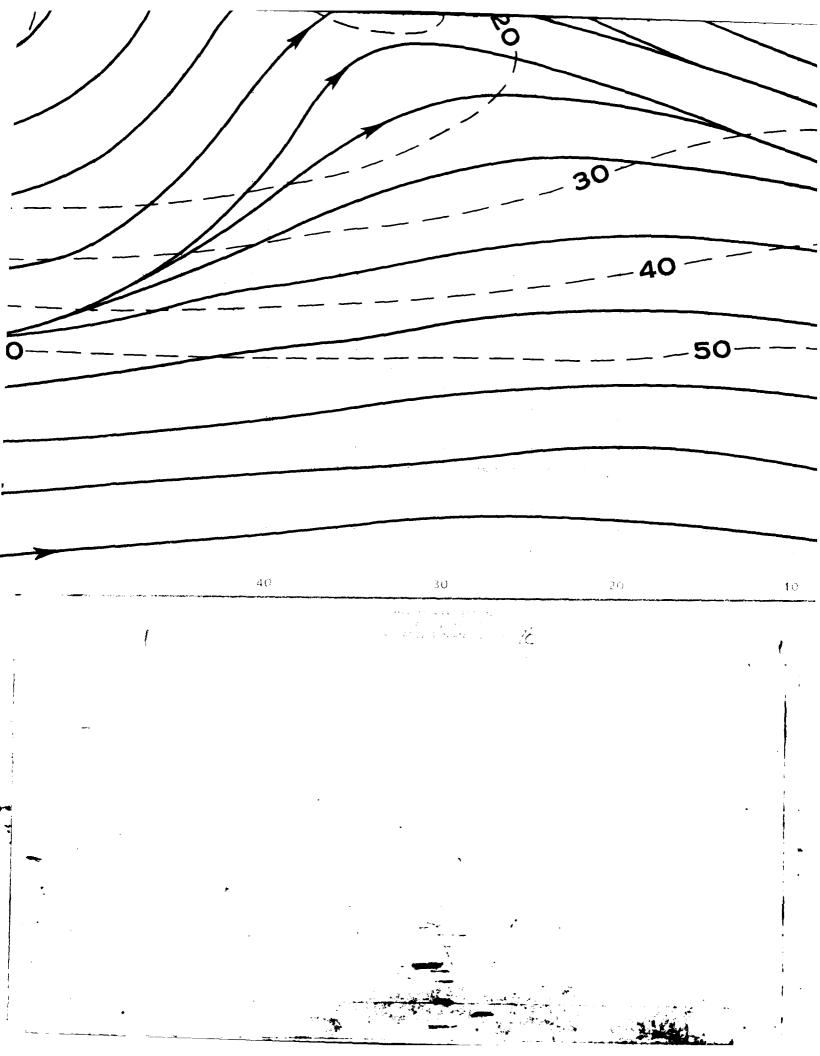


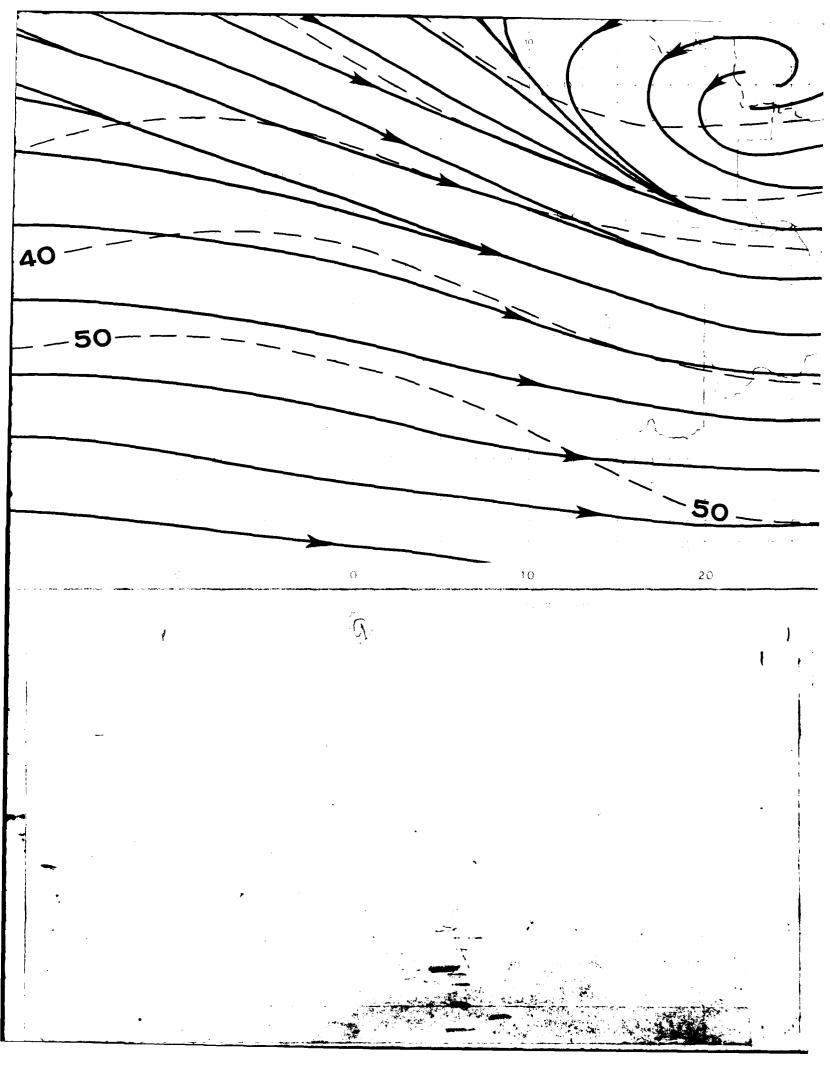
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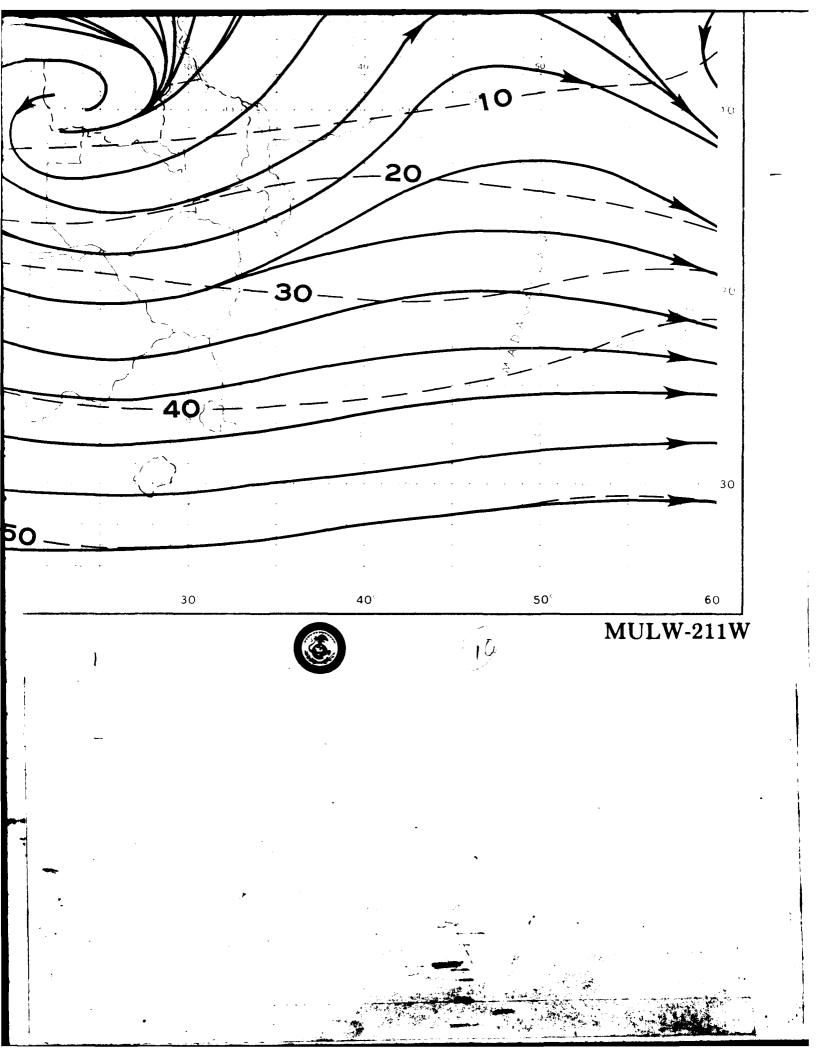


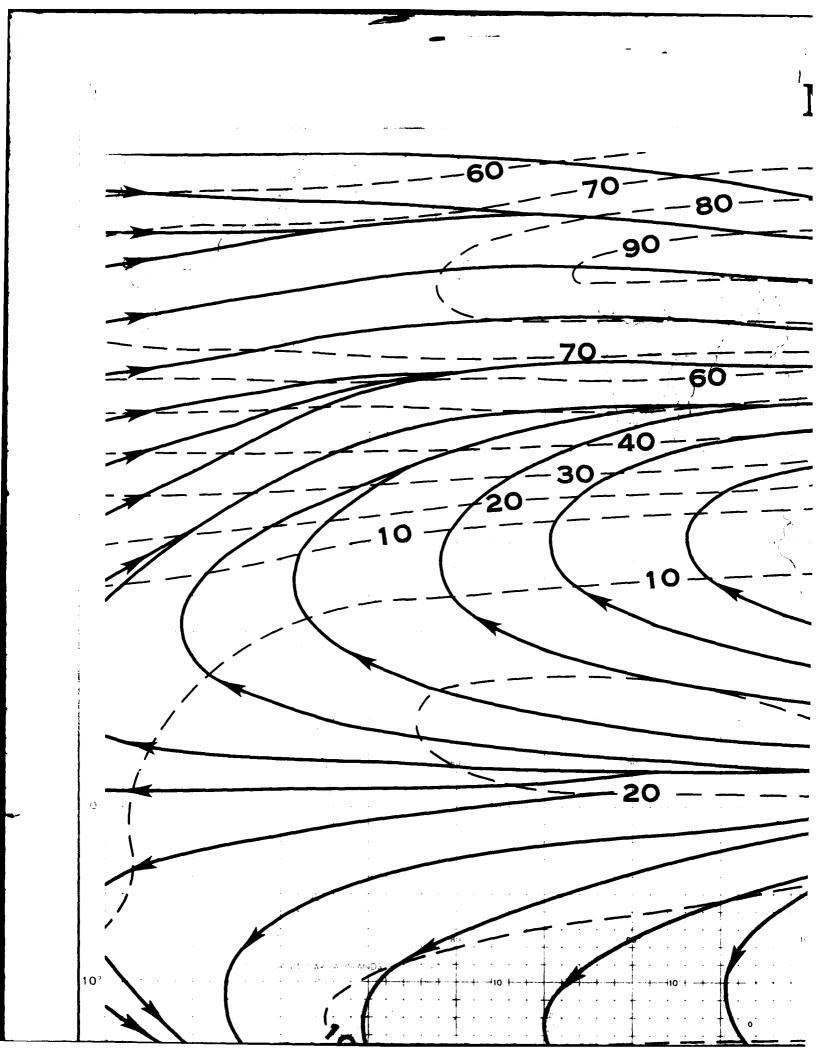
io.



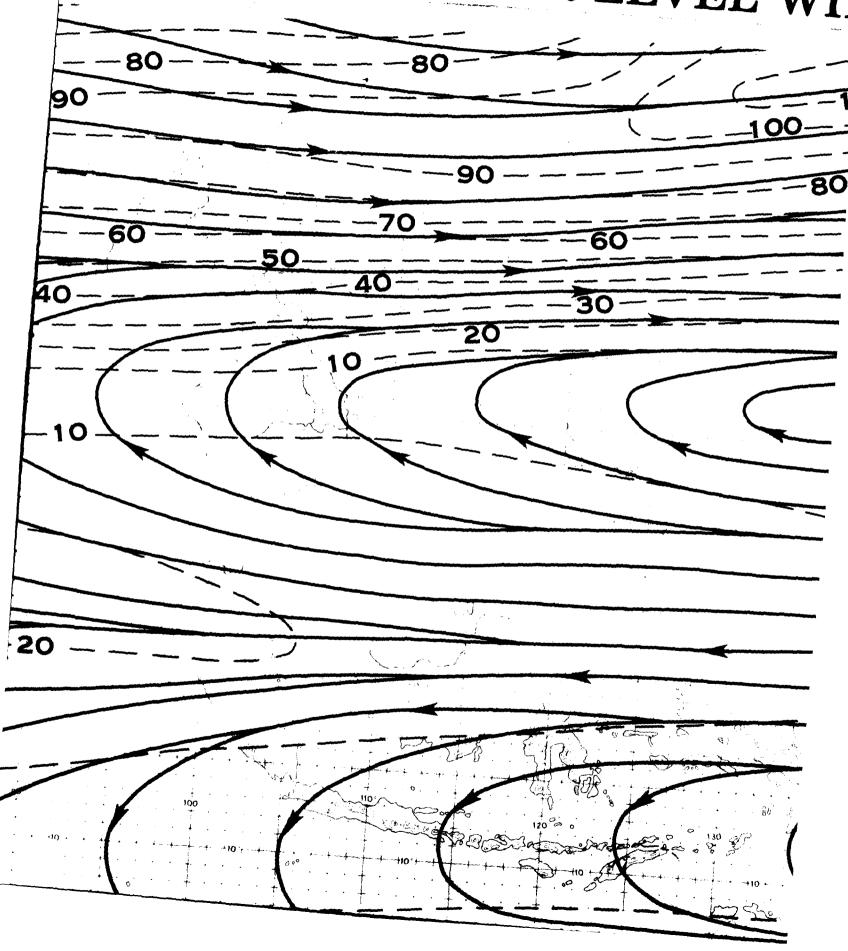






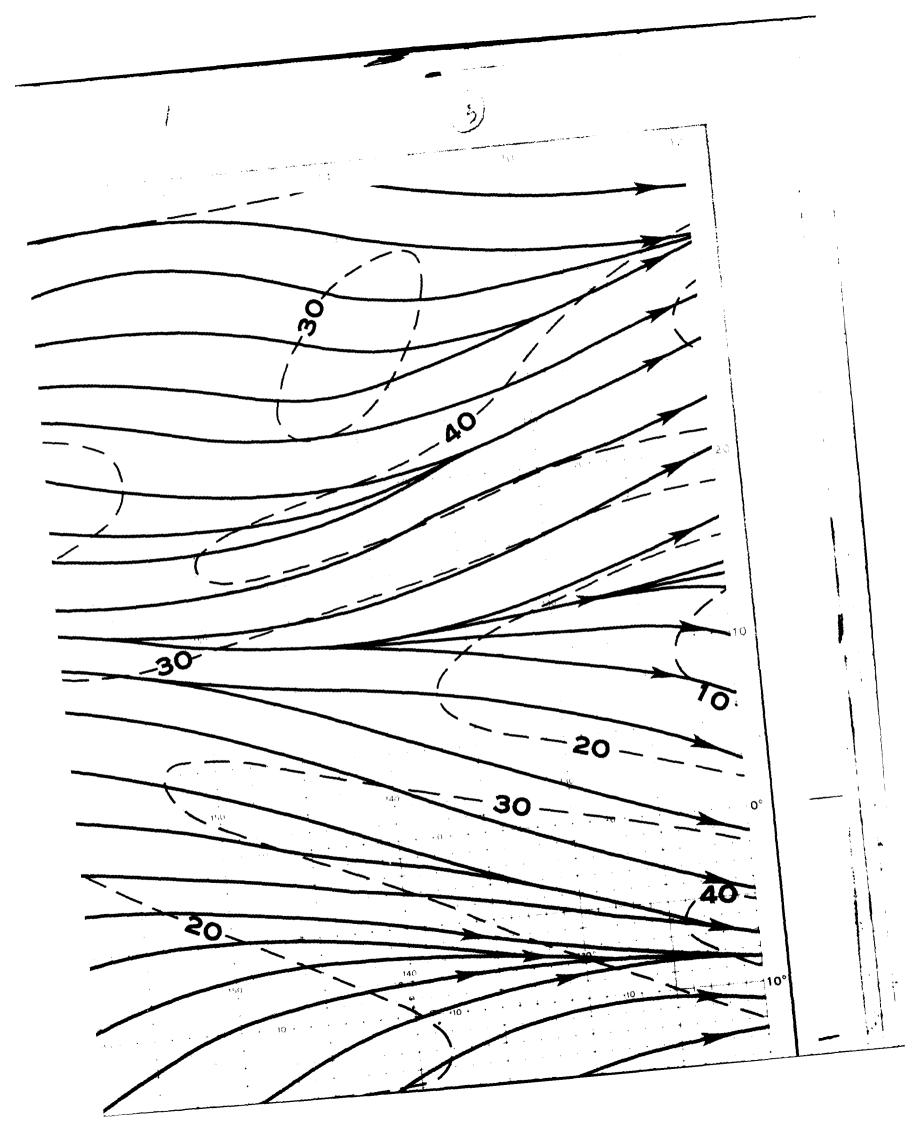


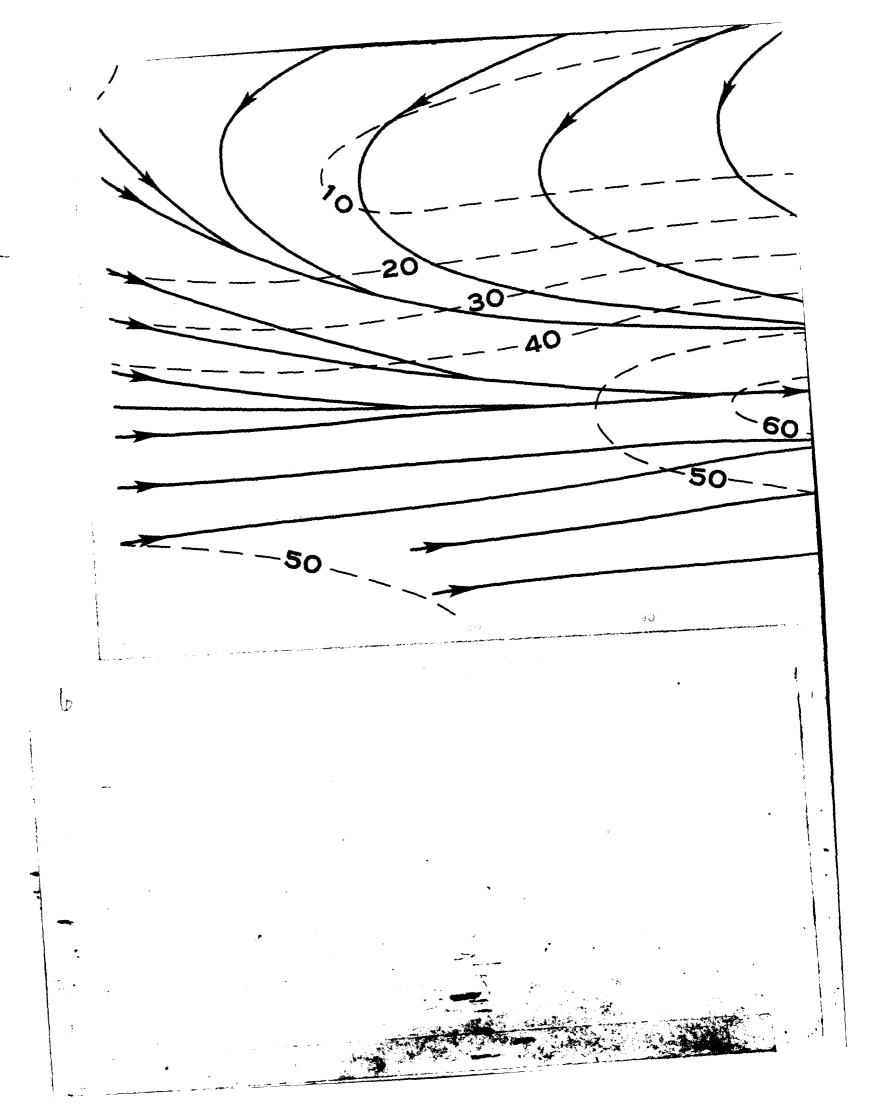
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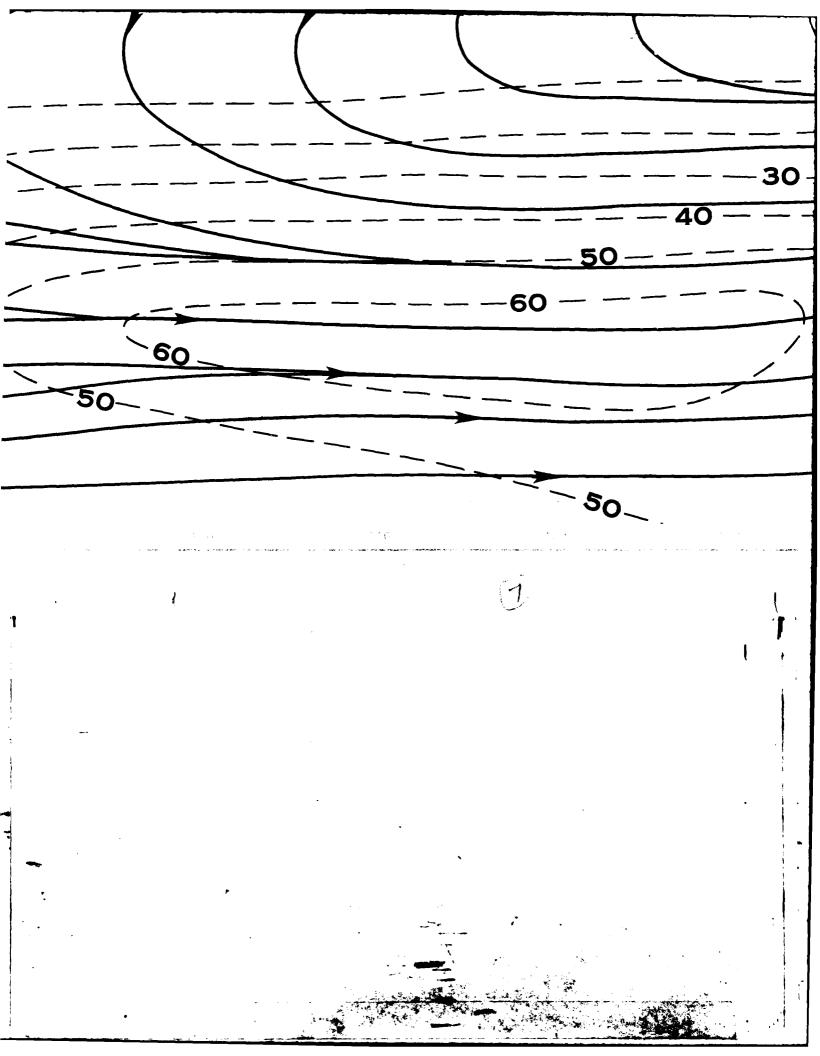


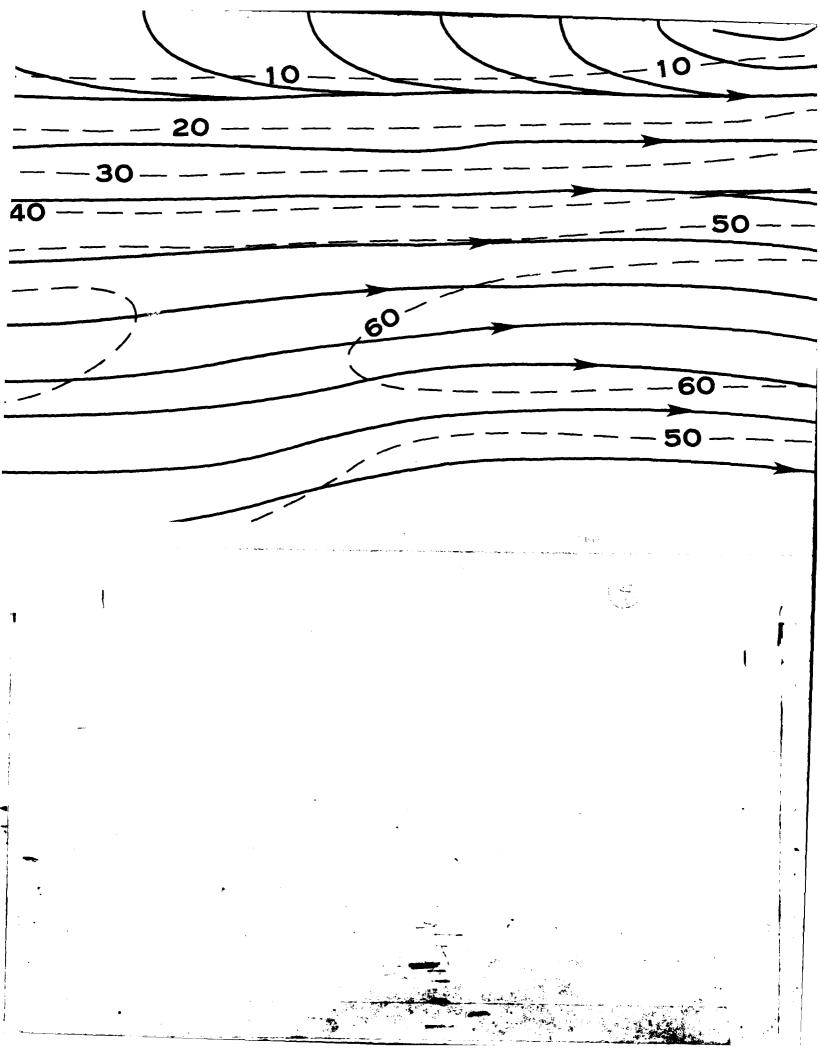
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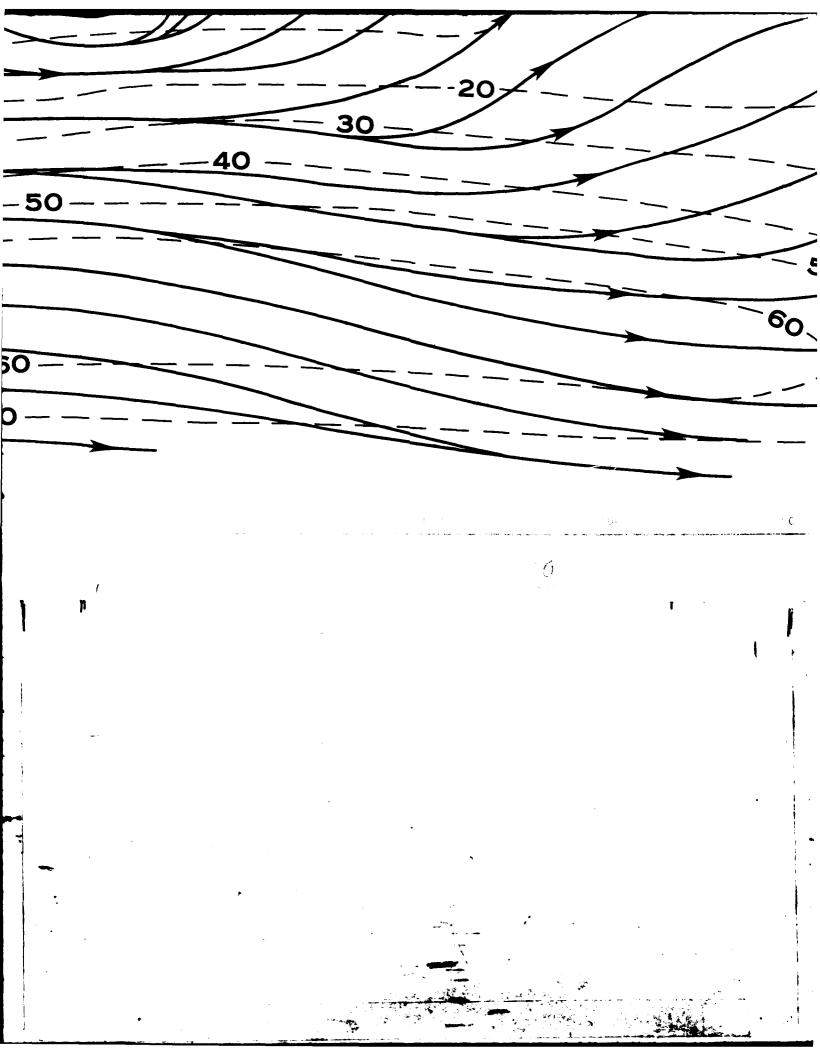
## 'ICS - NOVEMBER 200 mb

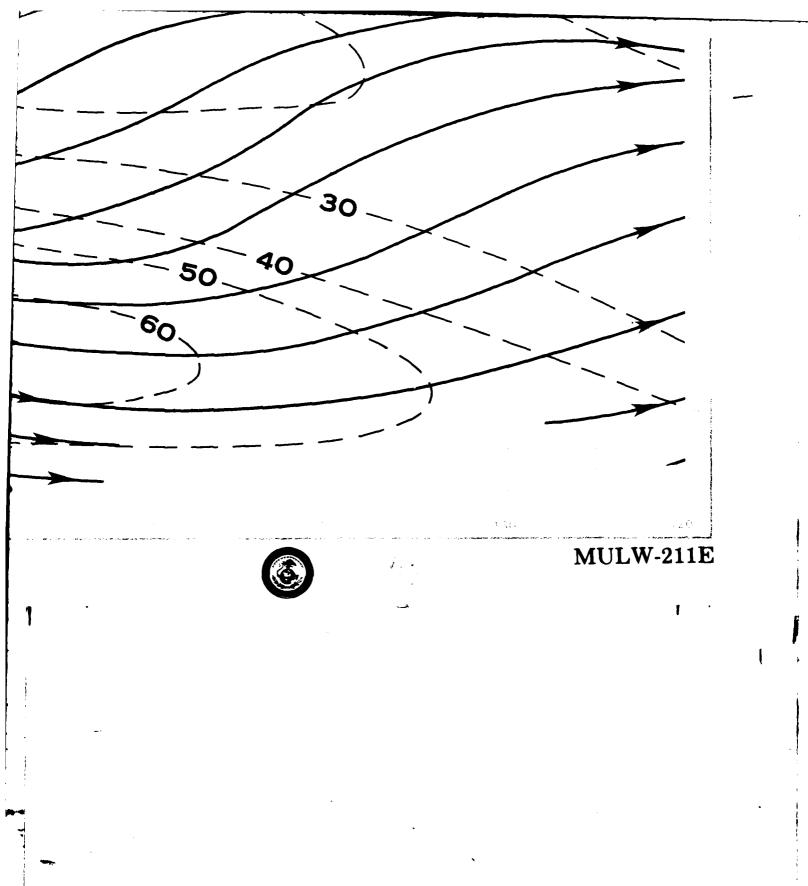


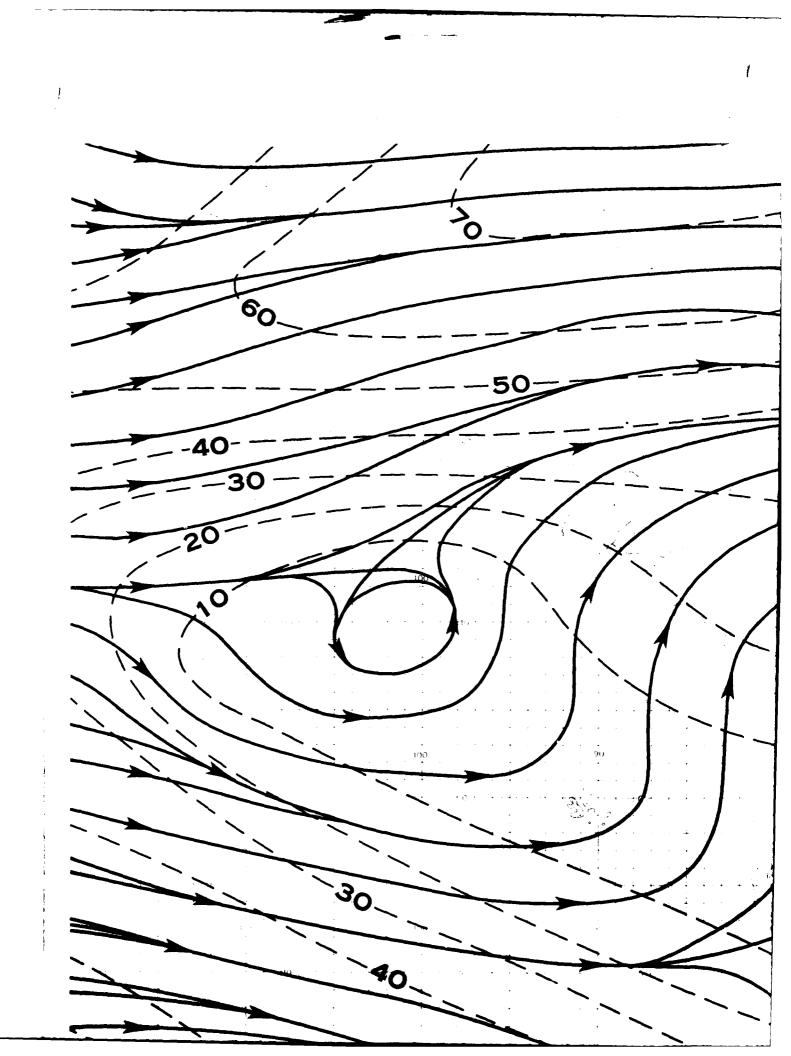






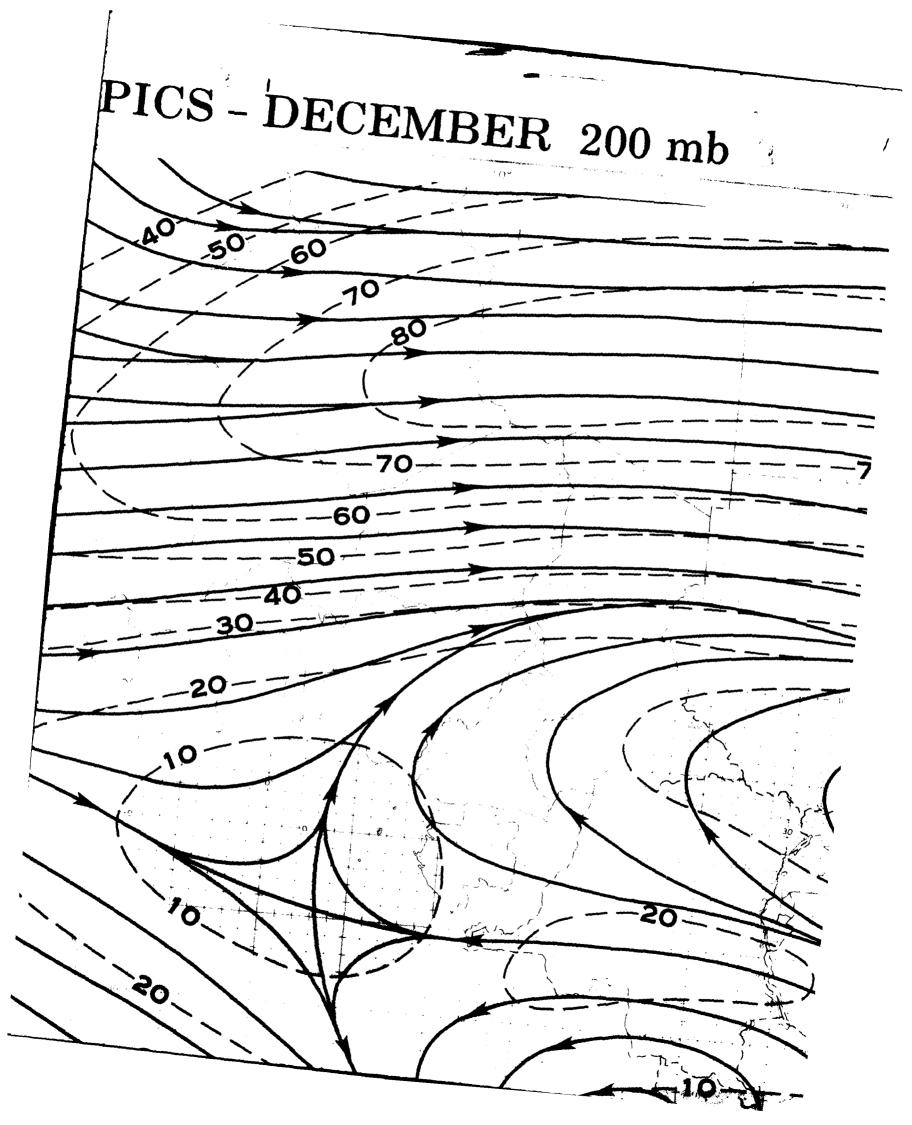


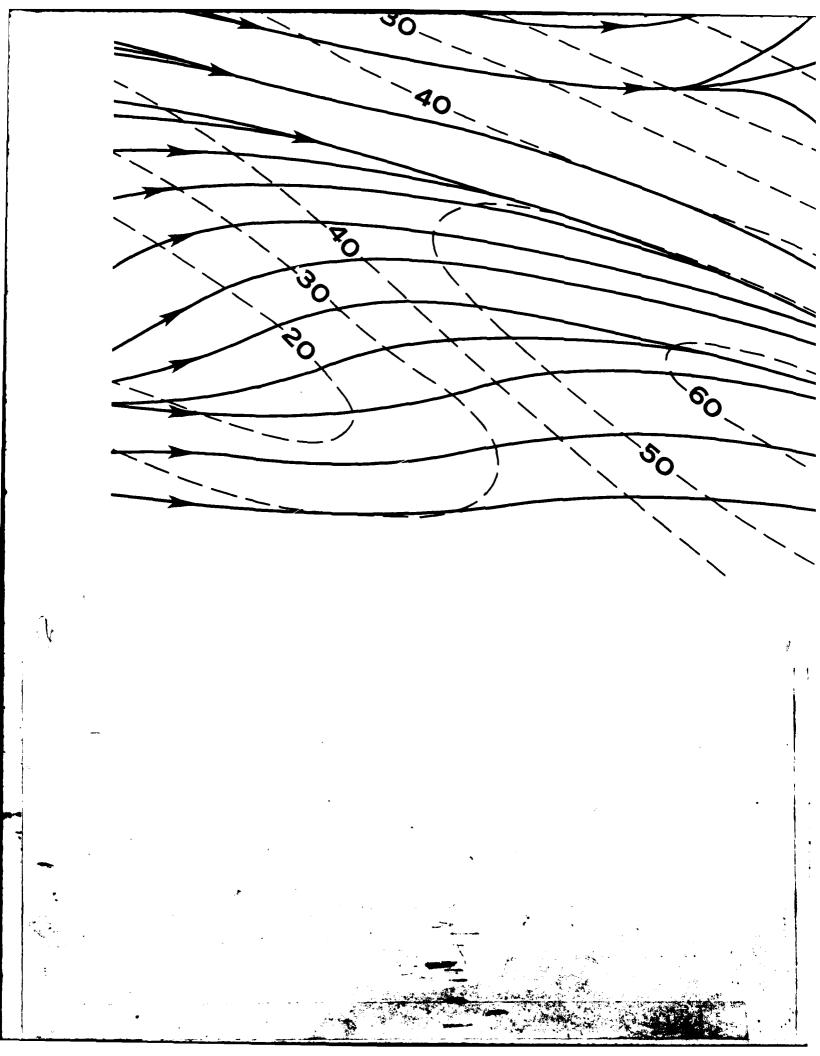


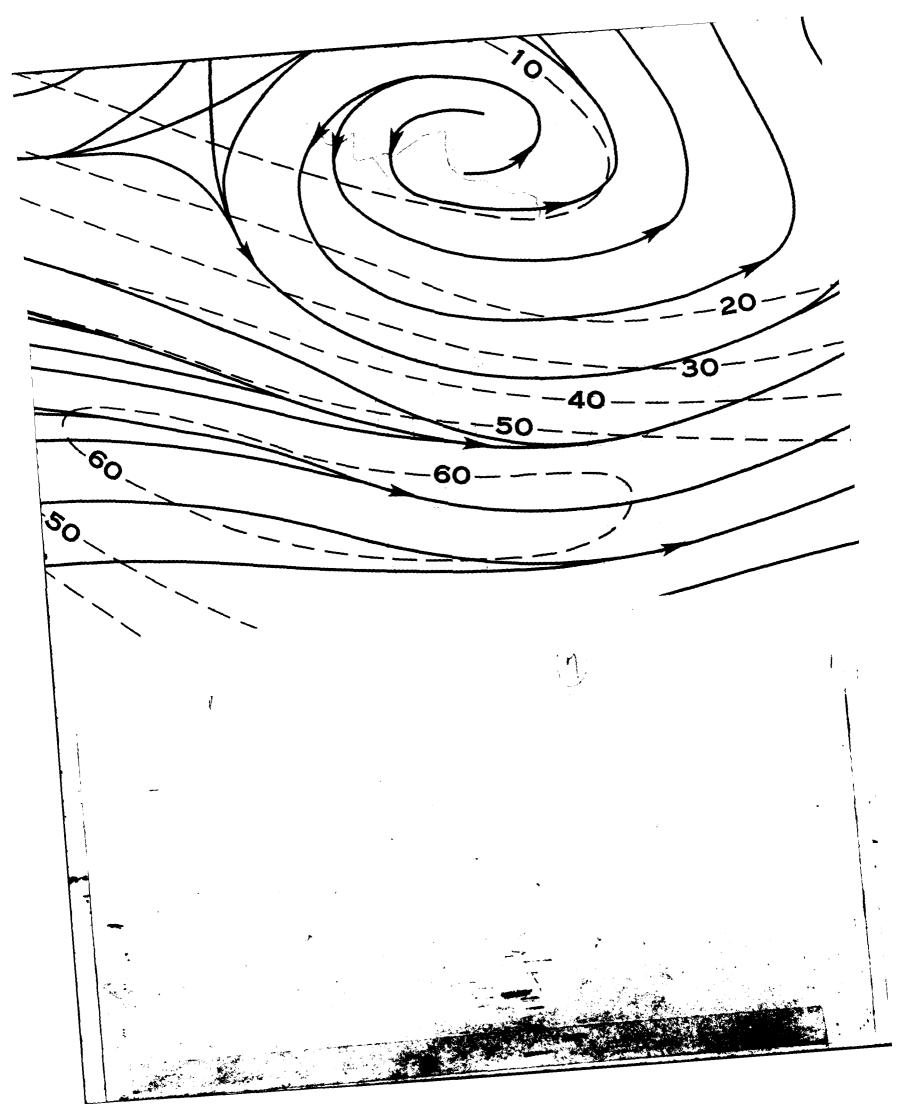


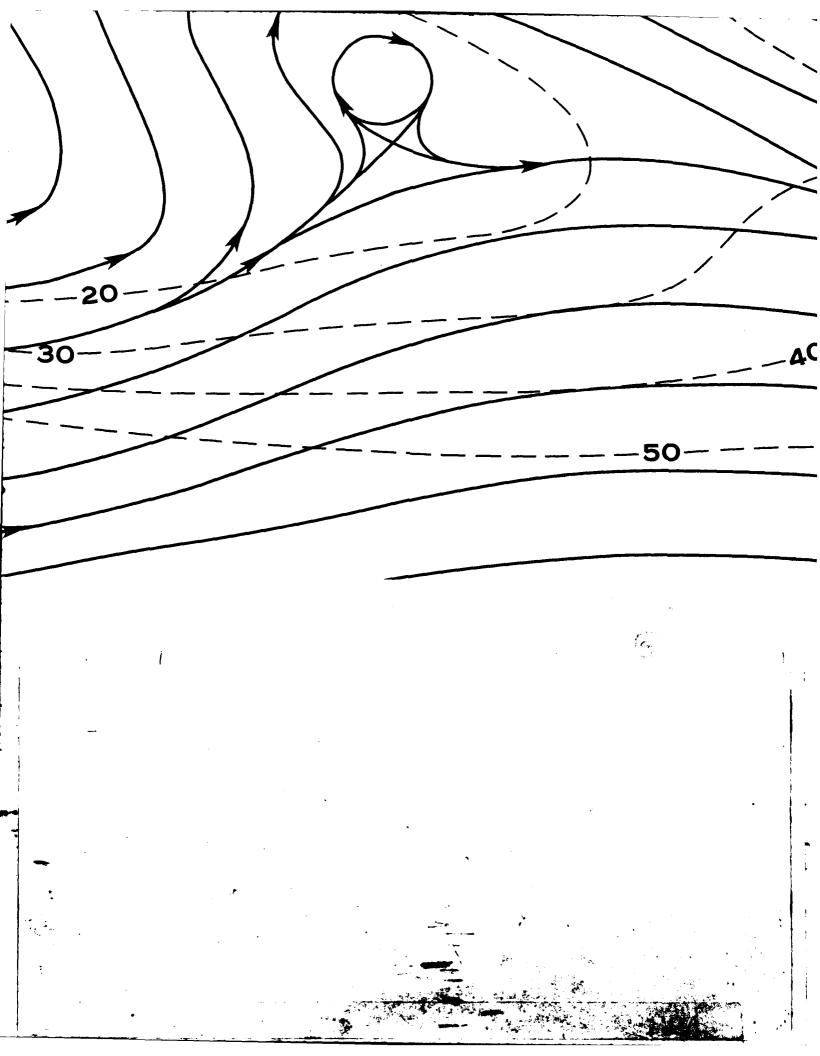
### MEAN UPPER LEVEL WI

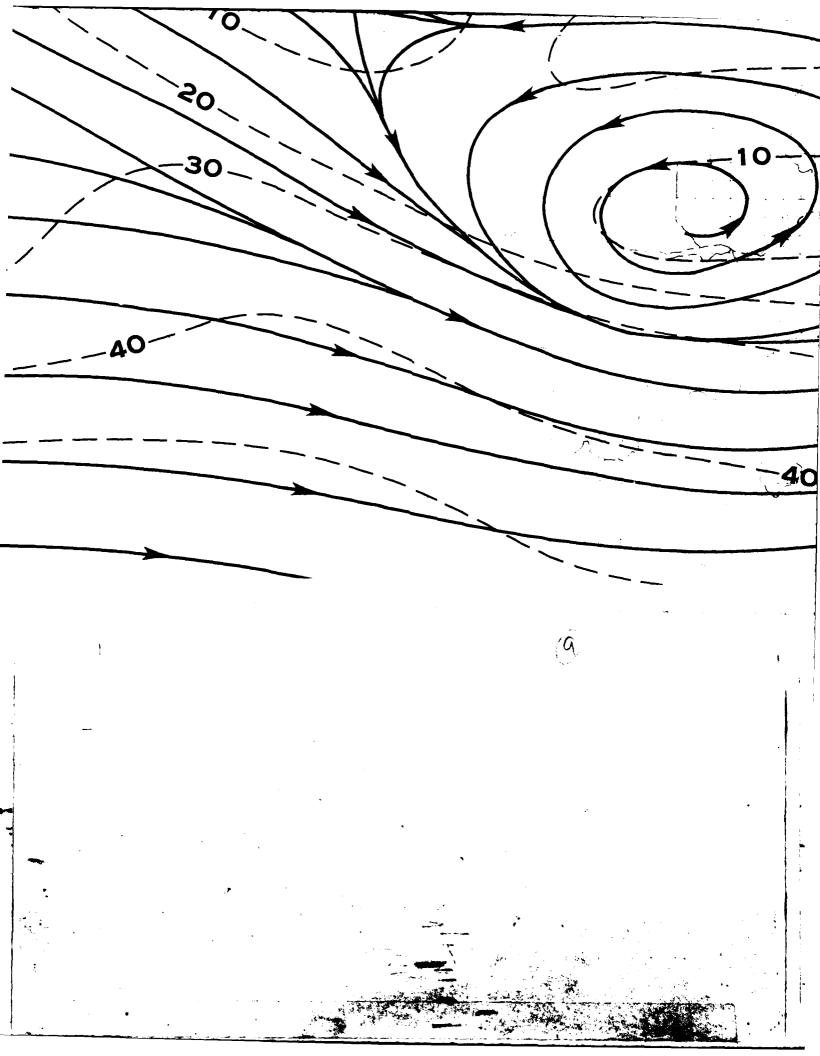
# WINDS over GLOBAL TROPICS - I

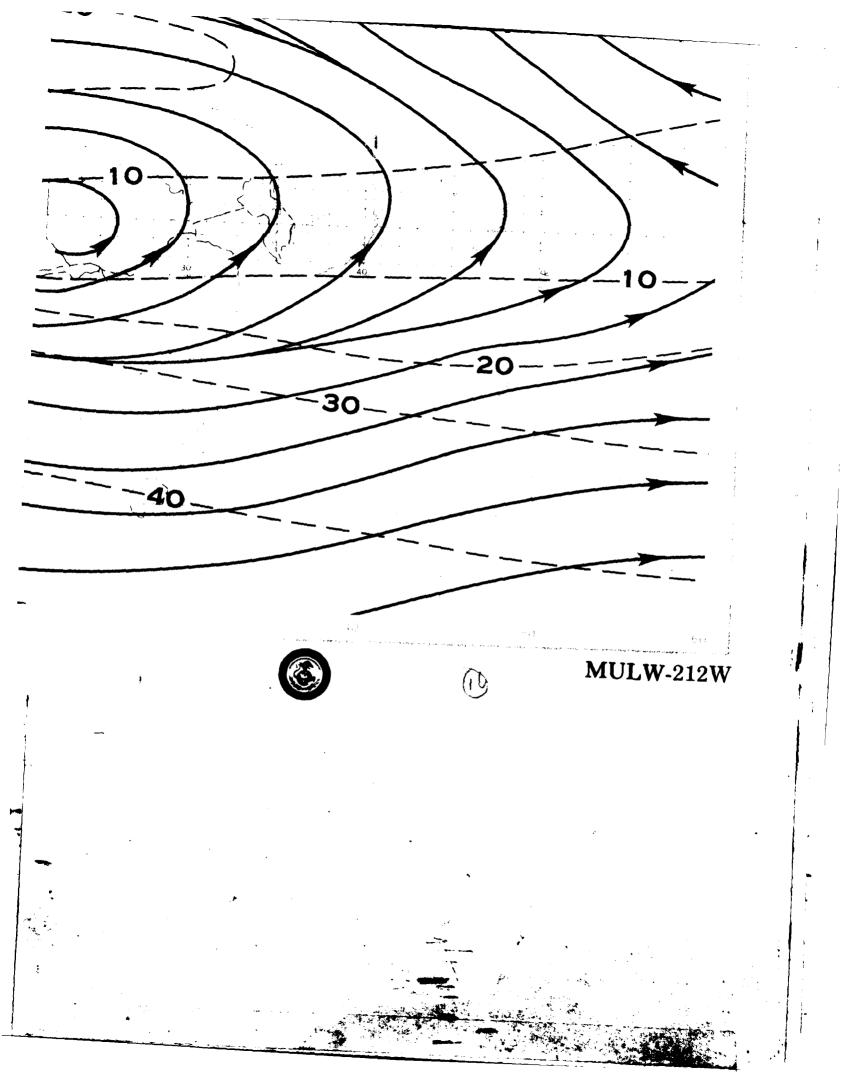




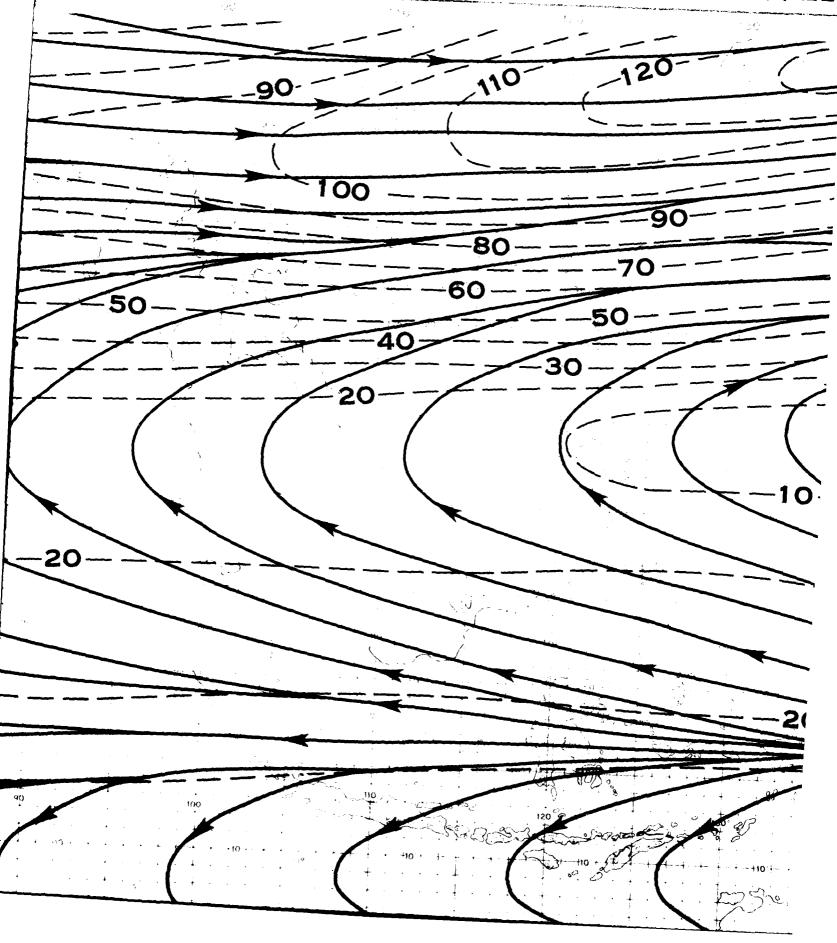








### MEAN UPPER LEVEL WIN



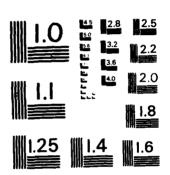
## JDS over GLOBAL TROPICS - DEC

## ECEMBER 200 mb

MEAN UPPER TROPOSPHERIC FLOW OVER THE GLOBAL TROPICS VOLUME 2(U) AIR MEATHER SERVICE SCOTT AFB IL J C SADLER ET AL. JAN 84 AWS/TR-83/002-VOL-2 SBI-AD-E850 890 F/G 4/2 NL UNCLASSIFIED END

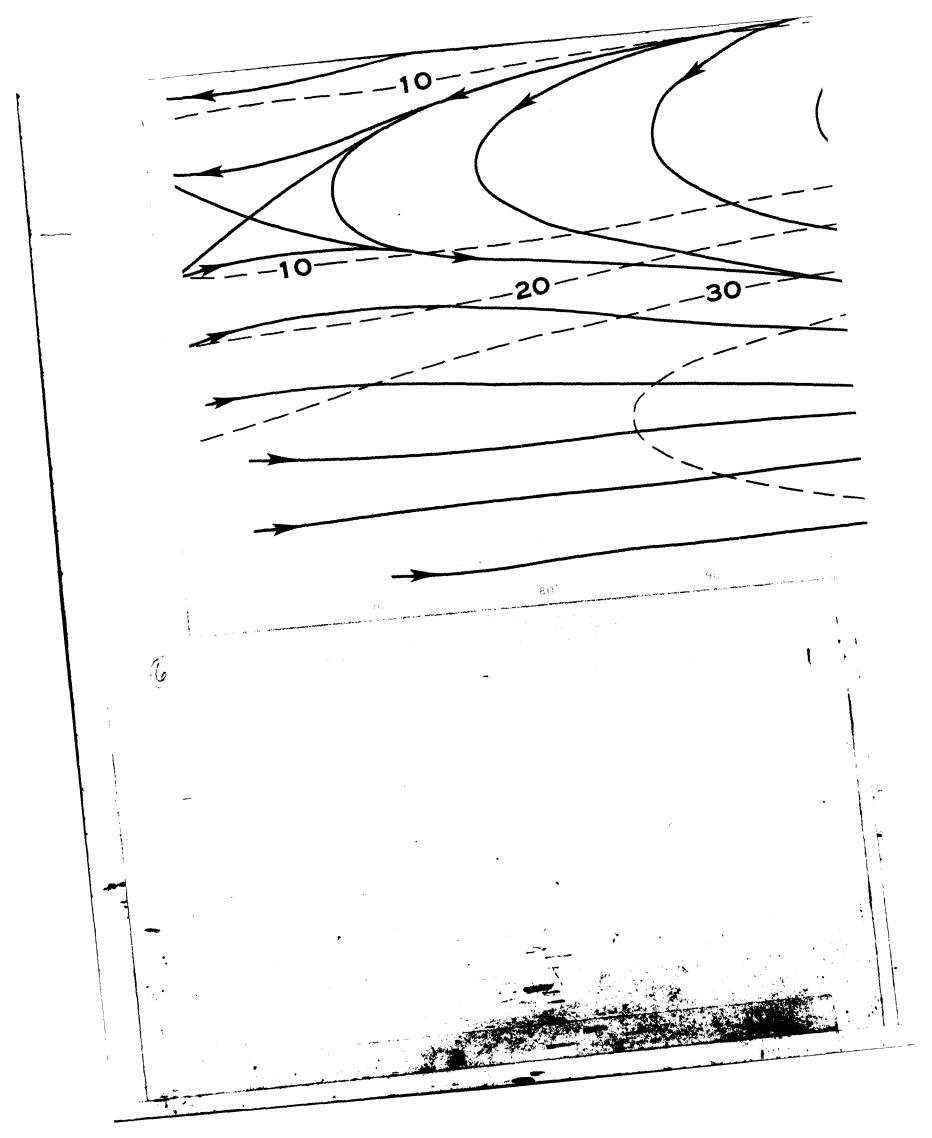
AD-A141 484

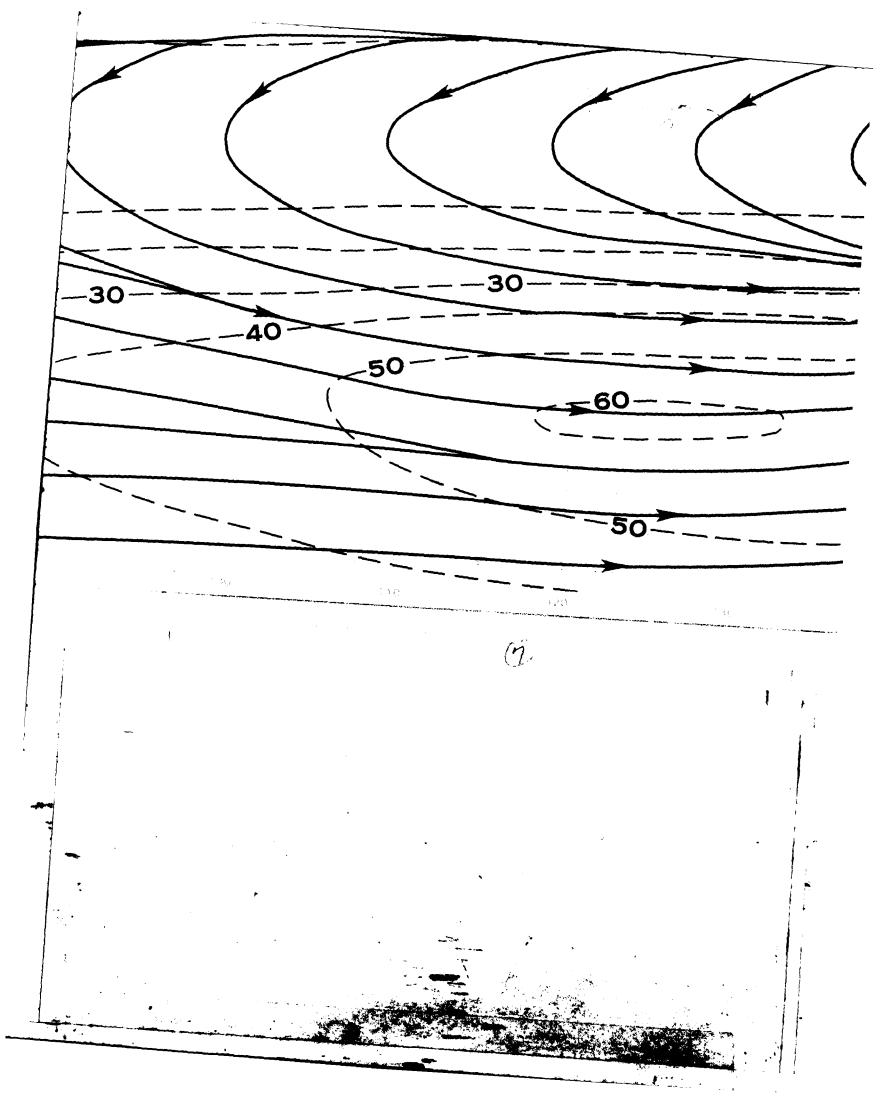
616

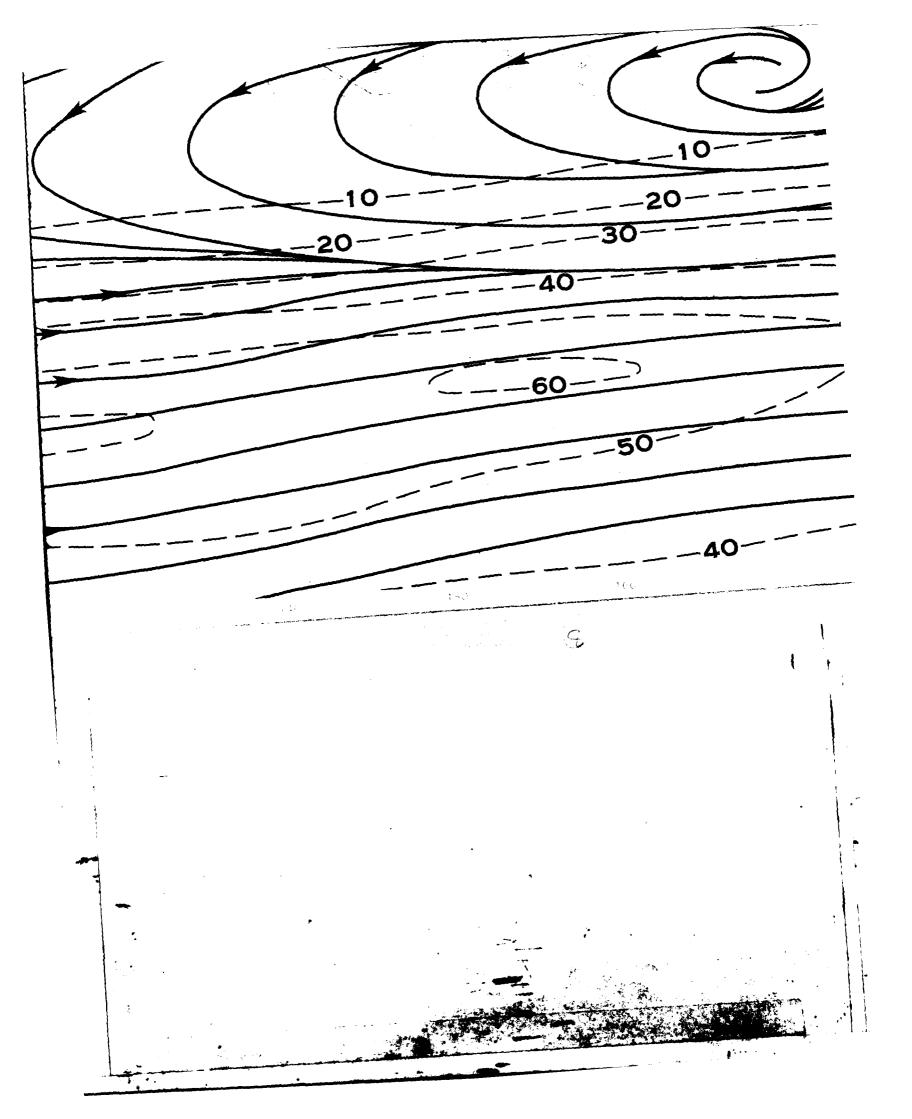


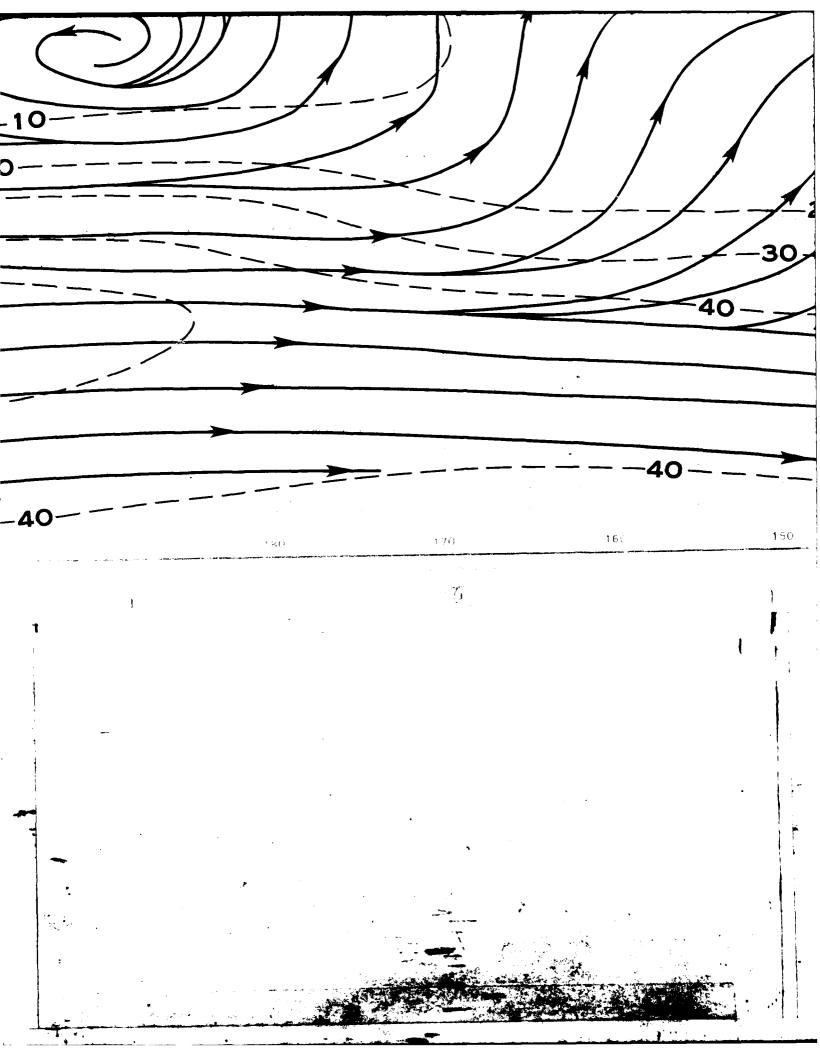
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

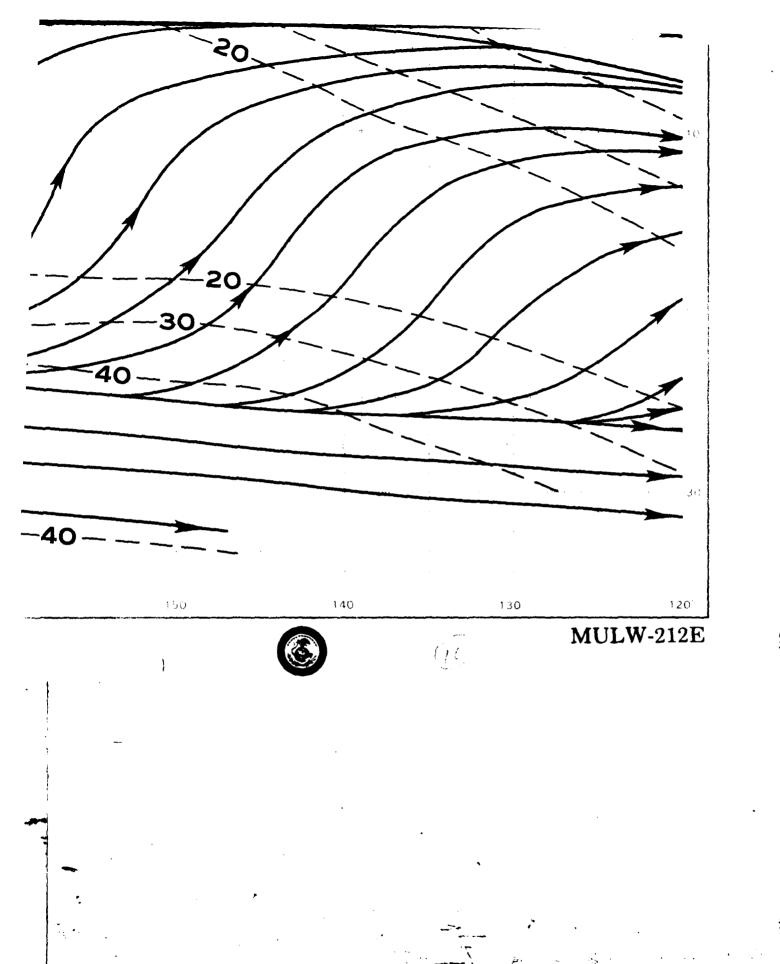
. .











### END

### DATE FILMED A Section 1. Section